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Description of document: National Security Agency (NSA) Lambros D. Callimahos:
Cryptanalytic Diagnosis with the Aid of a Computer (A
Collection of 147 Stethoscope Listings), 1965

Requested date: 26-February- 2025

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National Security Agency
NSA/CSS MDR Appeal Authority P133
National Security Agency
9800 Savage Road, Suite 6881
Fort George G. Meade
MD 20755-6881

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**NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE**
FORT GEORGE G. MEADE, MARYLAND 20755-6000



Serial: MDR-120544
14 August 2025

Please refer to your letter of 26 February 2025 requesting a declassification review of Lambros D. Callimahos' publication Cryptanalytic Diagnosis with the Aid of a Computer – A Collection of 147 Stethoscope Listings. We have processed the document as a Mandatory Declassification Review under Executive Order 13526. We have determined that the enclosed document does not contain any classified or exempt NSA/CSS information. Therefore, NSA has no objection to its declassification and release.

If you have questions regarding this action, please contact me at 301-688-7785.

Sincerely,

A handwritten signature in cursive script, reading "Jacqueline M. Amacher", is positioned above the printed name.

Jacqueline M. Amacher
Chief
Declassification Services

Encl: a/s

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National Security Agency
Fort George G. Meade, Maryland



INTENSIVE STUDY PROGRAM IN GENERAL CRYPTANALYSIS

CRYPTANALYTIC DIAGNOSIS WITH THE AID OF A COMPUTER

(A Collection of 147 Stethoscope Listings)

September 1965

GROUP-1: Excluded from automatic
downgrading and declassification

Cryptanalytic Literature Staff
OFFICE OF TRAINING

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NATIONAL SECURITY AGENCY
Fort George G. Meade, Maryland

INTENSIVE STUDY PROGRAM IN GENERAL CRYPTANALYSIS

CRYPTANALYTIC DIAGNOSIS WITH THE AID OF A COMPUTER
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Declassified and Approved for Release by NSA on 08-14-2025 pursuant to E.O. 13526, MDR Case #120544

Foreword

This collection of 147 Stethoscope listings embraces processed cipher texts from a wide variety of cryptosystems; the examples selected have been taken from Military Cryptanalytics, Parts I, II, and III, from the Zendian Problem, and from the D-series of diagnostic problems ("Problems in Cryptanalytic Diagnosis"). The format of the listings is that of the Stethoscope program on the Bogart computer.

This document was compiled expressly for use in the Intensive Study Program in General Cryptanalysis, in the seminars on diagnostic methods and techniques and on the interpretation of listings from so-called "diagnostic programs." (That term is of course a misnomer; "exploratory programs" would be more like it—a computer proposes, but man disposes.) The actual solutions of the problems are here incidental to their diagnostic aspects—in fact, the premature or indiscriminate use of some of these listings for the solution of problems, say in Military Cryptanalytics, Part II, would in reality detract from the cryptanalytic instructional value of the problems. In the Intensive Study Program in General Cryptanalysis these listings are studied without reference to the original cipher texts from which they were derived.

Lambros D. Callimahos
Lambros D. Callimahos

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Declassified and Approved for Release by NSA on 08-14-2025 pursuant to E.O. 13526, MDR Case #120544

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT j m q v s I 2 7
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 200 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	1										
b	8	IC TESTS FOR SIGNIFICANCE									
c	20	MONO IC	1.6998	SIGMA	19.7	200			1301	765	
d	11	DIGRAPHIC TESTS									
e	8	DIGRAPH IC	5.113	SIGMA	22.3	199			149	29	
f	6	CUT A IC	4.370	SIGMA	9.2	100			32	7	
g	0	CUT B IC	6.689	SIGMA	15.3	99			48	7	
h	1	TRIGRAPHIC TESTS									
i	13	TRIGRAPH IC	44.14	SIGMA	45.6	198			49	1.11	
j	4	CUT A IC	41.67	SIGMA	14.3	66			5	0.12	
k	4	CUT B IC	16.67	SIGMA	5.5	66			2	0.12	
l	2	CUT C IC	25.00	SIGMA	8.4	66			3	0.12	
m	24	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	8	OFF OBS EXP SIGMA OFF OBS EXP SIGMA									
o	5	1 6 13 -2.0 12 14 12 0.5 23 16 12 1.4									
p	1	2 11 13 -0.5 13 7 12 -1.5 24 16 11 1.4									
q	16	3 5 13 -2.3 14 12 12 0.0 25 11 11 -0.1									
r	0	4 16 13 0.9 15 12 12 0.0 26 12 11 0.2									
s	4	5 14 13 0.4 16 20 12 2.4 27 11 11 -0.1									
t	0	6 20 13 2.2 17 15 12 0.9 28 8 11 -1.0									
u	1	7 14 13 0.4 18 6 12 -1.8 29 15 11 1.2									
v	5	8 14 12 0.4 19 11 12 -0.2 30 14 11 0.9									
w	6	9 9 12 -1.0 20 8 12 -1.1 31 15 11 1.3									
x	15	10 20 12 2.3 21 13 12 0.4 32 9 11 -0.6									
y	18	11 11 12 -0.4 22 11 12 -0.2 33 13 11 0.7									
z	19	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
		W HITS COMPS AVG IC SIGMA W HITS COMPS AVG IC SIGMA									
		2 665 9900 1.746 0.92 27 41 644 1.655 -0.23									
		3 432 6567 1.710 0.16 28 38 616 1.604 -0.48									
		4 317 4900 1.682 -0.25 29 33 591 1.452 -1.24									
		5 291 3900 1.940 3.12 30 53 570 2.418 3.59									
		6 240 3234 1.929 2.52 31 39 549 1.847 0.74									
		7 176 2758 1.659 -0.45 32 38 528 1.871 0.86									
		8 179 2400 1.939 2.39 33 36 507 1.846 0.58									
		9 135 2123 1.653 -0.42 34 30 490 1.592 -0.43									
		10 146 1900 1.998 2.68 35 31 475 1.697 -0.01									
		11 115 1719 1.739 0.31 36 32 460 1.809 0.44									
		12 115 1568 1.907 1.66 37 26 445 1.519 -0.72									
		13 81 1440 1.463 -1.90 38 27 430 1.633 -0.27									
		14 80 1330 1.564 -0.95 39 24 415 1.504 -0.78									
		15 100 1235 2.105 2.84 40 32 400 2.080 1.52									
		16 94 1152 2.122 2.95 41 19 390 1.267 -1.73									
		17 75 1078 1.809 0.76 42 22 380 1.505 -0.78									
		18 68 1012 1.747 0.28 43 20 370 1.405 -1.18									
		19 64 955 1.742 0.25 44 21 360 1.517 -0.73									
		20 58 900 1.676 -0.14 45 39 350 2.897 4.79									
		21 53 855 1.612 -0.53 46 20 340 1.529 -0.68									
		22 50 810 1.605 -0.57 47 19 330 1.497 -0.81									
		23 52 772 1.751 0.31 48 27 320 2.194 1.98									
		24 65 736 2.296 2.98 49 18 310 1.510 -0.57									
		25 44 700 1.634 -0.33 50 22 300 1.907 0.62									
		26 41 672 1.586 -0.57 51 18 294 1.592 -0.32									

POLYGRAPHIC HITS AND IC

	LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	197	24	0.05	567.97	116.8	
5	196	16	0.01	9880.56	397.6	

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	30	108	e m d x
6	64	55	n q e q k m
4	79	21	x i c d
4	100	85	x i c d
6	58	53	y m v m z m
4	84	67	y x c b
4	151	39	y x c b
16	74	106	z b c y i x i c d y y x c b
			z q

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT j z d f v I 2 13
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 208 DITS 18

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	0						
b	1	IC TESTS FOR SIGNIFICANCE					
c	5	MONO IC 1.9686 SIGMAGE	28.4	208	1630	828	
d	23	DIGRAPHIC TESTS					
e	27	DIGRAPH IC 7.116 SIGMAGE	31.8	191	191	27	
f	7	CUT A IC 6.534 SIGMAGE	14.6	97	45	7	
g	1	CUT B IC 6.650 SIGMAGE	14.5	94	43	6	
h	0	TRIGRAPHIC TESTS					
i	2	TRIGRAPH IC 37.21 SIGMAGE	33.6	174	32	0.86	
j	23	CUT A IC 55.56 SIGMAGE	16.9	58	5	0.09	
k	8	CUT B IC 33.33 SIGMAGE	10.0	58	3	0.09	
l	3	CUT C IC 22.22 SIGMAGE	6.6	58	2	0.09	
m	4	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	4	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE					
o	3	1 5 15 -2.6 12 18 14 1.2 23 12 13 -0.3					
p	12	2 13 14 -0.4 13 10 14 -1.0 24 13 13 0.0					
q	0	3 15 14 0.2 14 21 14 2.1 25 11 13 -0.6					
r	2	4 14 14 0.0 15 12 14 -0.5 26 19 13 1.8					
s	7	5 21 14 1.8 16 15 14 0.4 27 7 13 -1.7					
t	6	6 11 14 -0.9 17 10 13 -1.0 28 13 13 0.1					
u	0	7 24 14 2.8 18 10 13 -0.9 29 16 13 1.0					
v	15	8 12 14 -0.6 19 12 13 -0.4 30 8 13 -1.4					
w	25	9 13 14 -0.3 20 9 13 -1.2 31 13 12 0.2					
x	8	10 11 14 -0.8 21 11 13 -0.7 32 15 12 0.8					
y	4	11 10 14 -1.1 22 15 13 0.6 33 13 12 0.2					
z	18	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	814	10712	1.976	0.15	27	63	708	2.314	1.73
3	540	7123	1.971	0.03	28	56	680	2.141	0.86
4	403	5305	1.975	0.09	29	50	651	1.997	0.14
5	318	4243	1.949	-0.26	30	57	628	2.360	1.96
6	279	3513	2.065	1.15	31	43	602	1.857	-0.56
7	246	3001	2.131	1.78	32	43	577	1.938	-0.16
8	210	2604	2.097	1.28	33	41	564	1.890	-0.40
9	182	2308	2.050	0.81	34	40	546	1.905	-0.32
10	160	2072	2.008	0.35	35	39	527	1.924	-0.23
11	153	1868	2.130	1.45	36	39	508	1.996	0.11
12	136	1711	2.067	0.78	37	37	490	1.963	-0.02
13	101	1567	1.676	-2.34	38	36	473	1.979	0.04
14	113	1452	2.023	0.43	39	25	462	1.407	-2.25
15	99	1349	1.908	-0.43	40	35	450	2.022	0.21
16	97	1252	2.014	0.32	41	32	435	1.913	-0.22
17	82	1179	1.808	-1.13	42	23	426	1.404	-2.26
18	94	1105	2.212	1.70	43	31	408	1.975	0.02
19	85	1045	2.115	1.02	44	29	396	1.904	-0.26
20	84	991	2.204	1.41	45	27	384	1.828	-0.56
21	61	946	1.677	-1.75	46	29	375	2.011	0.17
22	74	888	2.167	1.19	47	17	370	1.195	-3.10
23	70	846	2.151	1.09	48	24	359	1.738	-0.92
24	60	810	1.926	-0.26	49	28	354	2.056	0.35
25	48	770	1.621	-2.09	50	23	343	1.743	-0.90
26	50	739	1.759	-1.26	51	27	336	2.089	0.48

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	158	4	0.02	147.41	24.2
5	142	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	8	95	e	d	z	v
4	82	93	e	k	v	f
4	162	31	j	w	e	d
4	81	36	x	e	k	v

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 1 1 1 0 1 I 3 5
 for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 236 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	56						
1	54	IC TESTS FOR SIGNIFICANCE					
2	44	MONO IC 1.7310	SIGMAGE	40.6	236	4800	2773
3	34	DIGRAPHIC TESTS					
4	16	DIGRAPH IC 3.361	SIGMAGE	39.4	235	924	275
5	12	CUT A IC 4.245	SIGMAGE	27.2	118	293	69
6	17	CUT B IC 3.596	SIGMAGE	21.6	117	244	68
7	1	TRIGRAPHIC TESTS					
8	1	TRIGRAPH IC 7.52	SIGMAGE	34.1	234	205	27.26
9	1	CUT A IC 6.67	SIGMAGE	9.9	78	20	3.00
		CUT B IC 8.00	SIGMAGE	12.2	78	24	3.00
		CUT C IC 6.00	SIGMAGE	8.7	78	18	3.00

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	53	41	2.1	12	52	39	2.3	23	36	37	-0.2
2	48	40	1.3	13	32	39	-1.2	24	34	37	-0.5
3	36	40	-0.7	14	39	38	0.1	25	28	37	-1.5
4	46	40	1.0	15	32	38	-1.1	26	41	36	0.9
5	32	40	-1.4	16	35	38	-0.5	27	36	36	0.0
6	55	40	2.7	17	21	38	-3.0	28	40	36	0.7
7	31	40	-1.5	18	42	38	0.8	29	32	36	-0.7
8	52	39	2.2	19	32	38	-1.0	30	47	36	2.1
9	37	39	-0.4	20	28	37	-1.7	31	33	35	-0.5
10	44	39	0.9	21	28	37	-1.7	32	32	35	-0.6
11	36	39	-0.5	22	44	37	1.3	33	30	35	-1.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2604	13806	1.886	6.05	27	148	916	1.616	-1.15
3	1560	9165	1.702	-0.93	28	174	880	1.977	2.46
4	1279	6844	1.869	3.86	29	143	844	1.694	-0.37
5	914	5452	1.676	-1.38	30	135	812	1.663	-0.68
6	838	4524	1.852	2.66	31	125	784	1.594	-1.23
7	665	3861	1.722	-0.19	32	137	756	1.812	0.73
8	618	3364	1.837	2.01	33	124	728	1.703	-0.25
9	504	2977	1.693	-0.68	34	146	702	2.080	3.14
10	476	2668	1.784	0.90	35	115	681	1.689	-0.38
11	422	2415	1.747	0.26	36	130	660	1.970	2.15
12	405	2204	1.838	1.71	37	113	639	1.768	0.30
13	383	2025	1.891	2.40	38	116	618	1.877	1.17
14	345	1872	1.843	1.57	39	106	597	1.776	0.36
15	273	1740	1.569	-2.27	40	99	580	1.707	-0.19
16	286	1624	1.761	0.39	41	100	565	1.770	0.31
17	261	1521	1.716	-0.20	42	96	550	1.745	0.11
18	267	1430	1.867	1.77	43	94	535	1.757	0.21
19	239	1350	1.770	0.47	44	92	520	1.769	0.30
20	219	1276	1.716	-0.18	45	74	505	1.465	-2.13
21	187	1210	1.545	-2.23	46	99	490	2.020	2.02
22	209	1150	1.817	0.95	47	81	475	1.705	-0.18
23	190	1095	1.735	0.04	48	73	464	1.573	-1.11
24	180	1044	1.724	-0.08	49	84	454	1.850	0.83
25	156	999	1.562	-1.86	50	77	444	1.734	0.02
26	189	954	1.981	2.50	51	74	434	1.705	-0.18

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	233	48	2.71	17.76	27.7
5	232	16	0.26	59.71	30.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT								
4	29	79	0	0	0	6					
4	92	103	0	0	1	1					
5	33	71	0	0	2	6	0				
4	4	83	0	1	1	0					
6	61	164	0	3	0	4	2	6			
5	145	28	0	4	1	0	1				
6	145	68	0	4	1	0	1	3			
5	173	40	0	4	1	0	1				
5	53	29	0	5	2	3	3-				
5	27	62	1	0	0	0	0				
4	103	77	1	0	0	2					
4	39	136	1	0	1	5					
4	88	91	1	1	0	0					
4	205	1	1	1	1	1					
5	118	89	1	1	1	3	3				
4	67	27	1	1	2	2					
4	11	57	1	2-	2	3					
4	11	176	1	2	2	3					
4	23	45	1	2	2	3					
4	23	164	1	2	2	3					
4	68	119	1	2	2	3					
4	131	1	2	2	2	2					
4	131	34	2	2	2	2					
4	132	33	2	2	2	2					
4	43	140	2	3	1	4					
4	55	15	2	3	3	2					
4	35	194	2	6	0	6					
4	65	51	2	6	1	1					
9	8	12	3	3	3	1	2	2	3	1	0
4	140	46	4	1	2	2					
5	156	64	4	2	3	0	5				
4	138	74	5	0	4	1					

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 5 2 6 4 I 3 6
 for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 230 DITS 1

							HITS OBSERVED	HITS EXPECTED
0	20							
1	19	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	58	MONO IC 1.3036	SIGMAGE	16.4	230		3433	2633
3	14	DIGRAPHIC TESTS						
4	27	DIGRAPH IC 2.360	SIGMAGE	22.1	229		616	261
5	26	CUT A IC 2.349	SIGMAGE	11.0	115		154	66
6	30	CUT B IC 2.438	SIGMAGE	11.7	114		157	64
7	14	TRIGRAPHIC TESTS						
8	7	TRIGRAPH IC 6.30	SIGMAGE	27.0	228		163	25.88
9	15	CUT A IC 8.07	SIGMAGE	12.0	76		23	2.85
		CUT B IC 5.61	SIGMAGE	7.8	76		16	2.85
		CUT C IC 6.67	SIGMAGE	9.6	76		19	2.85

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	4	30	-5.1	12	26	28	-0.5	23	31	27	0.8
2	34	30	0.9	13	31	28	0.6	24	21	27	-1.2
3	17	30	-2.5	14	27	28	-0.2	25	32	27	1.1
4	37	29	1.5	15	35	28	1.4	26	22	27	-0.9
5	17	29	-2.4	16	30	28	0.4	27	26	26	-0.1
6	31	29	0.4	17	24	28	-0.8	28	26	26	-0.1
7	22	29	-1.4	18	27	28	-0.1	29	28	26	0.4
8	26	29	-0.6	19	32	27	0.9	30	24	26	-0.4
9	28	29	-0.1	20	32	27	1.0	31	28	26	0.4
10	22	29	-1.3	21	28	27	0.2	32	23	26	-0.6
11	33	28	0.9	22	31	27	0.8	33	25	26	-0.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1760	13110	1.342	1.44	27	119	868	1.371	0.67
3	1163	8702	1.336	0.99	28	128	832	1.538	2.34
4	897	6498	1.380	2.05	29	89	798	1.115	-1.70
5	663	5175	1.281	-0.55	30	113	770	1.468	1.48
6	604	4294	1.407	2.27	31	98	742	1.321	0.15
7	485	3664	1.324	0.40	32	89	714	1.246	-0.52
8	432	3192	1.353	0.93	33	85	687	1.237	-0.60
9	391	2825	1.384	1.44	34	90	666	1.351	0.42
10	331	2530	1.308	0.07	35	78	645	1.209	-0.86
11	314	2290	1.371	1.07	36	89	624	1.426	0.98
12	293	2090	1.402	1.47	37	68	603	1.128	-1.41
13	257	1921	1.338	0.51	38	93	582	1.598	2.35
14	246	1776	1.385	1.13	39	79	565	1.398	0.75
15	247	1650	1.497	2.70	40	81	550	1.473	1.35
16	213	1540	1.383	1.03	41	66	535	1.234	-0.56
17	186	1443	1.289	-0.20	42	88	520	1.692	3.10
18	192	1356	1.416	1.34	43	61	505	1.208	-0.77
19	185	1278	1.448	1.73	44	66	490	1.347	0.30
20	165	1210	1.364	0.72	45	79	475	1.663	2.51
21	164	1145	1.432	1.41	46	56	460	1.217	-0.61
22	145	1090	1.330	0.29	47	63	450	1.400	0.67
23	131	1035	1.266	-0.42	48	61	440	1.386	0.57
24	123	990	1.242	-0.68	49	51	430	1.186	-0.83
25	121	945	1.280	-0.24	50	49	420	1.167	-0.96
26	113	904	1.250	-0.54	51	66	410	1.610	2.14

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	227	44	2.56	17.15	26.0
5	226	14	0.26	55.06	27.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT			
6	168	22	0	2	3	4
4	168	47	0	2	3	4
4	190	25	0	2	3	4
4	47	112	0	6	5	2
4	75	146	1	2	5	4
5	50	74	2	1	6	7
4	50	136	2	1	6	7
5	123	62	2	2	1	6
4	155	14	2	3	4	5
4	155	36	2	3	4	5
5	3	91	2	6	4	5
4	162	49	2	9	2	1
4	16	23	2	9	2	7
6	130	12	2	9	4	5
4	54	148	2	9	4	7
5	89	135	4	3	6	5
4	24	108	4	5	2	3
7	24	120	4	5	2	3
7	60	117	4	5	6	5
4	139	22	5	2	9	2
4	105	89	5	6	1	2
4	74	121	6	1	2	5
4	91	117	6	5	0	2
4	62	98	6	5	2	9
4	160	19	6	5	2	9
4	52	46	6	7	2	9
4	42	177	7	2	1	2
4	38	61	7	2	9	2
4	9	190	8	2	0	2
4	119	29	8	2	0	4

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT 0 5 1 0 5 I 3 7

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 360 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	37							
1	55	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	64	MONO IC 1.1370 SIGMAGE	11.6	360		7347	6462	
3	33	DIGRAPHIC TESTS						
4	47	DIGRAPH IC 3.537 SIGMAGE	64.7	359		2273	643	
5	28	CUT A IC 3.687 SIGMAGE	34.4	180		594	161	
6	14	CUT B IC 3.628 SIGMAGE	33.4	179		578	159	
7	31	TRIGRAPHIC TESTS						
8	22	TRIGRAPH IC 14.13 SIGMAGE	105.2	358		903	63.90	
9	29	CUT A IC 62.89 SIGMAGE	166.1	120		449	7.14	
		CUT B IC 15.38 SIGMAGE	38.3	119		108	7.02	
		CUT C IC 49.29 SIGMAGE	128.6	119		346	7.02	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	28	41	-2.1	12	65	40	4.3	23	22	38	-2.8
2	25	41	-2.6	13	24	40	-2.6	24	55	38	2.9
3	72	41	5.2	14	18	39	-3.6	25	23	38	-2.6
4	17	41	-3.9	15	59	39	3.3	26	20	38	-3.1
5	28	40	-2.1	16	25	39	-2.4	27	85	38	8.1
6	73	40	5.5	17	27	39	-2.1	28	19	38	-3.3
7	9	40	-5.2	18	94	39	9.4	29	16	38	-3.8
8	24	40	-2.7	19	20	39	-3.2	30	89	38	8.9
9	87	40	7.9	20	20	39	-3.2	31	23	38	-2.5
10	18	40	-3.7	21	83	39	7.6	32	24	37	-2.3
11	17	40	-3.8	22	26	39	-2.1	33	59	37	3.8

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3744	32220	1.162	1.50	27	464	2223	2.087	15.20
3	4578	21420	2.137	49.00	28	226	2136	1.058	-1.19
4	1812	16020	1.131	-0.25	29	207	2058	1.006	-1.97
5	1409	12780	1.103	-1.29	30	420	1980	2.121	14.76
6	2336	10620	2.200	36.14	31	183	1914	0.956	-2.72
7	1013	9078	1.116	-0.67	32	197	1848	1.066	-0.99
8	882	7920	1.114	-0.69	33	384	1785	2.151	14.20
9	1569	7020	2.235	30.74	34	197	1730	1.139	0.03
10	696	6300	1.105	-0.83	35	196	1675	1.170	0.46
11	639	5712	1.119	-0.45	36	354	1620	2.185	13.62
12	1118	5220	2.142	24.12	37	156	1575	0.990	-1.91
13	508	4806	1.057	-1.84	38	171	1530	1.118	-0.25
14	484	4450	1.088	-1.08	39	294	1485	1.980	10.96
15	857	4140	2.070	19.59	40	134	1440	0.931	-2.68
16	452	3872	1.167	0.63	41	154	1404	1.097	-0.52
17	435	3633	1.197	1.20	42	287	1368	2.098	11.53
18	790	3420	2.310	23.46	43	140	1332	1.051	-1.03
19	379	3231	1.173	0.68	44	130	1296	1.003	-1.61
20	317	3060	1.036	-1.82	45	252	1260	2.000	10.36
21	622	2907	2.140	18.05	46	128	1232	1.039	-1.18
22	317	2768	1.145	0.14	47	108	1204	0.897	-2.88
23	281	2640	1.064	-1.24	48	305	1176	2.594	16.03
24	528	2520	2.095	16.29	49	110	1148	0.958	-1.97
25	262	2415	1.085	-0.83	50	104	1120	0.929	-2.29
26	241	2314	1.041	-1.54	51	267	1092	2.445	14.39

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	357	335	6.36	52.71	130.9
5	356	182	0.64	287.97	228.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT									
4	132	114	0	2	7	1						
4	24	150	0	2	7	4						
4	9	153	0	4	9	1						
4	9	246	0	4	9	1						
4	162	78	0	4	9	1						
4	162	93	0	4	9	1						
4	240	15	0	4	9	1						
6	1	144	0	5	1	0	5	2				
6	148	51	0	5	2	0	5	3				
9	124	108	0	5	2	2	7	1	3	8	0	
5	124	153	0	5	2	2	7					
5	136	96	0	5	2	2	7					
6	136	141	0	5	2	2	7	4				
6	166	66	0	5	2	2	7	1				
5	166	111	0	5	2	2	7					
5	232	45	0	5	2	2	7					
6	4	105	0	5	2	3	8	0				
5	97	12	0	5	2	3	8					
6	109	201	0	5	2	3	8	0				
5	109	240	0	5	2	3	8					
6	49	153	0	5	3	1	6	1				
4	171	186	1	0	5	0						
6	3	93	1	0	5	2	3	8				
4	3	120	1	0	5	2						
4	3	132	1	0	5	2						
4	3	162	1	0	5	2						
7	3	306	1	0	5	2	3	8	0			
6	3	345	1	0	5	2	3	8				
4	96	27	1	0	5	2						
4	96	39	1	0	5	2						
4	96	51	1	0	5	2						
4	96	69	1	0	5	2						
6	96	213	1	0	5	2	3	8				
6	123	12	1	0	5	2	2	7				
4	123	24	1	0	5	2						
7	123	42	1	0	5	2	2	7	1			
4	123	186	1	0	5	2						
4	123	225	1	0	5	2						
4	135	12	1	0	5	2						
6	135	30	1	0	5	2	2	7				
4	135	174	1	0	5	2						
4	135	213	1	0	5	2						
4	147	18	1	0	5	2						
4	147	162	1	0	5	2						
4	147	201	1	0	5	2						
4	165	183	1	0	5	2						
6	309	39	1	0	5	2	3	8				
4	66	51	1	4	9	1						
4	66	192	1	4	9	1						
4	117	132	1	4	9	1						

MORE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 9 9 1 8 5 I 4 3

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for interpretation of this run call P 1 on x 4040

MONO
COUNT

TOTAL 418 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	56							
1	51	IC TESTS FOR SIGNIFICANCE						
2	46	MONO IC 1.0114	SIGMAGE	1.1	418		8815	8715
3	37	DIGRAPHIC TESTS						
4	34	DIGRAPH IC 1.137	SIGMAGE	4.1	417		986	867
5	39	CUT A IC 1.693	SIGMAGE	10.3	209		368	217
6	40	CUT B IC 0.999	SIGMAGE	0.0	208		215	215
7	34	TRIGRAPHIC TESTS						
8	48	TRIGRAPH IC 1.17	SIGMAGE	1.6	416		101	86.32
9	33	CUT A IC 1.04	SIGMAGE	0.1	139		10	9.59
		CUT B IC 1.36	SIGMAGE	1.1	139		13	9.59
		CUT C IC 0.95	SIGMAGE	-0.2	138		9	9.45

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	28	42	-2.3	12	33	41	-1.3	23	33	40	-1.2
2	36	42	-1.0	13	48	41	1.2	24	28	40	-2.0
3	37	42	-0.8	14	45	41	0.7	25	36	40	-0.6
4	26	42	-2.6	15	42	41	0.2	26	43	40	0.6
5	46	42	0.7	16	43	41	0.4	27	25	39	-2.4
6	40	42	-0.3	17	45	41	0.7	28	38	39	-0.2
7	42	42	0.1	18	38	40	-0.4	29	40	39	0.1
8	55	41	2.2	19	36	40	-0.7	30	44	39	0.8
9	38	41	-0.5	20	34	40	-1.0	31	30	39	-1.5
10	40	41	-0.2	21	44	40	0.7	32	42	39	0.5
11	34	41	-1.2	22	52	40	2.0	33	32	39	-1.2

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4655	43472	1.071	4.20	27	288	3030	0.950	-1.10
3	2904	28912	1.004	-0.40	28	292	2912	1.003	-0.14
4	2277	21632	1.053	2.06	29	283	2807	1.008	-0.05
5	1773	17264	1.027	0.70	30	310	2704	1.146	2.30
6	1510	14352	1.052	1.64	31	282	2613	1.079	1.16
7	1257	12272	1.024	0.48	32	294	2522	1.166	2.64
8	1165	10712	1.088	2.70	33	232	2442	0.950	-0.98
9	920	9499	0.969	-1.39	34	262	2364	1.108	1.55
10	909	8528	1.066	1.71	35	230	2288	1.005	-0.10
11	796	7733	1.029	0.52	36	231	2222	1.040	0.46
12	726	7072	1.027	0.45	37	238	2156	1.104	1.49
13	723	6512	1.110	2.67	38	235	2090	1.124	1.70
14	638	6032	1.058	1.22	39	220	2035	1.081	1.05
15	598	5616	1.065	1.35	40	225	1980	1.136	1.88
16	584	5252	1.112	2.42	41	193	1925	1.003	-0.12
17	538	4932	1.091	1.84	42	195	1872	1.042	0.43
18	463	4646	0.997	-0.32	43	192	1827	1.051	0.56
19	471	4389	1.073	1.36	44	189	1782	1.061	0.70
20	465	4160	1.118	2.35	45	173	1737	0.996	-0.21
21	390	3952	0.987	-0.50	46	191	1692	1.129	1.65
22	406	3762	1.079	1.36	47	157	1652	0.950	-0.85
23	378	3591	1.053	0.84	48	166	1616	1.027	0.21
24	345	3434	1.005	-0.12	49	140	1580	0.886	-1.63
25	332	3288	1.010	-0.02	50	149	1544	0.965	-0.60
26	372	3152	1.180	3.21	51	168	1508	1.114	1.34

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	415	16	8.60	1.86	2.5
5	414	3	0.86	3.51	2.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	278	135	1	2	6	9
4	85	276	1	5	2	1
5	21	20	1	5	3	0 0
4	3	106	1	8	5	7
4	171	217	2	6	0	4
5	295	49	2	- 8	6	4 9
5	128	136	2	9	0	7 8
4	69	132	3	1	1	4
4	79	142	4	7	3	0
4	63	242	5	8	3	5
4	255	120	6	8	9	0
4	67	200	7	8	3	1
4	1	242	9	9	1	8

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 2 2 0 8- 7 I 4 4
 for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 404 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	29							
1	29	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	40	MONO IC 1.0028 SIGMAGE	0.2	404		8163	8140	
3	45	DIGRAPHIC TESTS						
4	38	DIGRAPH IC 1.047 SIGMAGE	1.3	403		848	810	
5	43	CUT A IC 0.965 SIGMAGE	-0.5	202		196	203	
6	48	CUT B IC 1.010 SIGMAGE	0.1	201		203	201	
7	44	TRIGRAPHIC TESTS						
8	41	TRIGRAPH IC 1.12 SIGMAGE	1.1	402		90	80.60	
9	47	CUT A IC 1.12 SIGMAGE	0.4	134		10	8.91	
		CUT B IC 0.79 SIGMAGE	-0.6	134		7	8.91	
		CUT C IC 1.46 SIGMAGE	1.4	134		13	8.91	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	32	40	-1.4	12	33	39	-1.0	23	35	38	-0.5
2	38	40	-0.4	13	39	39	0.0	24	43	38	0.9
3	35	40	-0.8	14	36	39	-0.5	25	33	38	-0.8
4	46	40	1.0	15	45	39	1.0	26	42	38	0.7
5	39	40	-0.2	16	40	39	0.2	27	30	38	-1.3
6	42	40	0.4	17	35	39	-0.6	28	43	38	0.9
7	46	40	1.1	18	37	39	-0.3	29	42	38	0.8
8	23	40	-2.8	19	44	39	0.9	30	32	37	-0.9
9	38	40	-0.3	20	43	38	0.8	31	43	37	1.0
10	37	39	-0.4	21	32	38	-1.1	32	35	37	-0.4
11	41	39	0.3	22	44	38	1.0	33	28	37	-1.6

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4025	40602	0.991	-0.80	27	277	2821	0.982	-0.38
3	2680	27001	0.993	-0.55	28	312	2716	1.149	2.48
4	2051	20200	1.015	0.56	29	259	2613	0.991	-0.20
5	1656	16120	1.027	1.01	30	235	2522	0.932	-1.21
6	1305	13400	0.974	-1.13	31	271	2431	1.115	1.79
7	1219	11457	1.064	2.20	32	233	2352	0.991	-0.19
8	1000	10000	1.000	-0.10	33	255	2274	1.121	1.89
9	875	8866	0.987	-0.50	34	234	2200	1.064	0.98
10	780	7960	0.980	-0.69	35	240	2134	1.125	1.83
11	766	7218	1.061	1.62	36	207	2068	1.001	-0.03
12	650	6600	0.985	-0.49	37	193	2005	0.963	-0.60
13	582	6076	0.958	-1.17	38	179	1950	0.918	-1.28
14	633	5628	1.125	3.05	39	170	1895	0.897	-1.59
15	530	5239	1.012	0.22	40	178	1840	0.967	-0.50
16	502	4900	1.024	0.48	41	199	1791	1.111	1.51
17	486	4600	1.057	1.24	42	197	1746	1.128	1.75
18	432	4334	0.997	-0.13	43	177	1701	1.041	0.53
19	407	4095	0.994	-0.19	44	171	1656	1.033	0.42
20	382	3880	0.985	-0.38	45	155	1612	0.962	-0.53
21	380	3686	1.031	0.56	46	170	1576	1.079	0.99
22	378	3510	1.077	1.48	47	163	1540	1.058	0.72
23	325	3349	0.970	-0.63	48	151	1504	1.004	0.01
24	312	3200	0.975	-0.53	49	131	1468	0.892	-1.44
25	297	3064	0.969	-0.61	50	134	1432	0.936	-0.87
26	298	2940	1.014	0.20	51	142	1400	1.014	0.14

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	401	16	8.03	2.00	2.8
5	400	5	0.79	6.27	4.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT				
4	12	79	3	0	5	3	
4	159	194	3	6	7	9	
6	83	224	3	7	7	5	7 9
5	136	184	4	5	3	0	3
5	16	126	4	7	6	5	8
4	290	24	5	1	2	9	
4	93	186	5	3	2	9	
4	101	112	6	0	1	9	
4	25	192	6	2	2	6	
5	311	44	7	9	4	5	1
4	161	86	7	9	5	4	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 8 0 7 1 3 I 4 5
 for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 225 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	26						
1	29	IC TESTS FOR SIGNIFICANCE					
2	21	MONO IC	0.9825	SIGMAGE	-0.9 225	2476	2520
3	24	DIGRAPHIC TESTS					
4	17	DIGRAPH IC	2.947	SIGMAGE	31.0 224	736	250
5	22	CUT A IC	2.815	SIGMAGE	14.4 112	175	62
6	24	CUT B IC	2.976	SIGMAGE	15.7 112	185	62
7	18	TRIGRAPHIC TESTS					
8	21	TRIGRAPH IC	4.77	SIGMAGE	18.8 223	118	24.75
9	23	CUT A IC	21.94	SIGMAGE	35.1 75	61	2.78
		CUT B IC	3.33	SIGMAGE	3.9 74	9	2.70
		CUT C IC	17.78	SIGMAGE	27.8 74	48	2.70

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	18	22	-0.9	12	28	21	1.6	23	10	20	-2.3
2	20	22	-0.4	13	14	21	-1.6	24	40	20	4.8
3	35	22	3.0	14	8	21	-2.9	25	10	20	-2.3
4	12	22	-2.2	15	43	21	5.2	26	11	20	-2.0
5	12	22	-2.2	16	17	20	-0.8	27	39	19	4.7
6	25	21	0.8	17	10	20	-2.4	28	14	19	-1.3
7	14	21	-1.7	18	36	20	3.7	29	9	19	-2.5
8	13	21	-1.9	19	11	20	-2.2	30	20	19	0.2
9	30	21	2.0	20	14	20	-1.4	31	17	19	-0.5
10	8	21	-3.0	21	36	20	3.8	32	10	19	-2.2
11	16	21	-1.1	22	15	20	-1.2	33	37	19	4.4

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1217	12544	0.970	-0.48	27	141	828	1.703	7.20
3	1421	8325	1.707	21.72	28	62	792	0.783	-1.80
4	592	6216	0.952	-0.81	29	58	763	0.760	-2.01
5	467	4950	0.943	-0.92	30	110	735	1.497	4.63
6	696	4107	1.695	14.95	31	68	707	0.962	-0.19
7	337	3504	0.962	-0.42	32	60	679	0.884	-0.89
8	289	3052	0.947	-0.65	33	107	657	1.629	5.81
9	449	2700	1.663	11.56	34	62	636	0.975	-0.06
10	204	2420	0.843	-2.24	35	56	615	0.911	-0.58
11	215	2190	0.982	-0.02	36	96	594	1.616	5.06
12	329	1998	1.647	9.96	37	44	573	0.768	-1.72
13	172	1836	0.937	-0.64	38	55	555	0.991	0.06
14	151	1696	0.890	-1.30	39	100	540	1.852	6.95
15	265	1575	1.683	9.10	40	36	525	0.686	-2.38
16	147	1470	1.000	0.22	41	35	510	0.686	-2.38
17	146	1378	1.060	0.92	42	79	495	1.596	4.29
18	229	1296	1.767	9.41	43	33	480	0.688	-2.07
19	114	1221	0.934	-0.59	44	38	465	0.817	-1.16
20	107	1155	0.926	-0.63	45	75	450	1.667	4.79
21	182	1095	1.662	7.47	46	49	440	1.114	0.92
22	96	1040	0.923	-0.66	47	45	430	1.047	0.45
23	90	990	0.909	-0.81	48	83	420	1.976	6.95
24	158	945	1.672	6.89	49	41	410	1.000	0.12
25	87	900	0.967	-0.16	50	29	400	0.725	-1.81
26	73	864	0.845	-1.38	51	87	390	2.231	8.74

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	222	24	2.46	9.78	13.8
5	221	10	0.25	41.14	19.9

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT					
5	190	27	1	3	0	8	0	
5	19	30	1	3	2	8	0	
5	46	108	2	5	5	1	3	
5	61	102	4	7	7	1	3	
4	156	33	5	1	3	0		
4	123	75	5	2	5	1		
6	12	18	5	6	9	6	8	0
4	90	12	5	8	0	2		
4	15	51	6	8	0	2		
5	73	114	6	9	5	1	3	
4	27	45	7	6	9	5		
5	34	63	8	0	9	1	3	
5	34	96	8	0	9	1	3	
5	97	33	8	0	9	1	3	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 7 2 1 0 9 I 4 7

for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 329 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	31							
1	28	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	42	MONO IC	0.9910	SIGMAGE	-0.7	329	5347	5395
3	35	DIGRAPHIC TESTS						
4	27	DIGRAPH IC	1.013	SIGMAGE	0.3	328	543	536
5	31	CUT A IC	0.935	SIGMAGE	-0.8	164	125	134
6	33	CUT B IC	1.003	SIGMAGE	0.0	164	134	134
7	38	TRIGRAPHIC TESTS						
8	29	TRIGRAPH IC	2.78	SIGMAGE	13.0	327	148	53.30
9	35	CUT A IC	6.11	SIGMAGE	12.5	109	36	5.89
		CUT B IC	1.02	SIGMAGE	0.0	109	6	5.89
		CUT C IC	4.92	SIGMAGE	9.6	109	29	5.89

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	24	32	-1.6	12	40	31	1.6	23	27	30	-0.6
2	31	32	-0.3	13	23	31	-1.6	24	36	30	1.1
3	38	32	1.1	14	26	31	-1.0	25	31	30	0.2
4	32	32	0.0	15	36	31	0.9	26	33	30	0.6
5	19	32	-2.4	16	27	31	-0.8	27	33	30	0.6
6	31	32	-0.2	17	27	31	-0.7	28	24	30	-1.1
7	27	32	-0.9	18	39	31	1.6	29	36	30	1.2
8	27	32	-0.9	19	21	31	-1.8	30	36	30	1.2
9	41	32	1.7	20	31	31	0.1	31	23	30	-1.3
10	25	32	-1.2	21	42	30	2.2	32	28	29	-0.3
11	30	31	-0.3	22	27	30	-0.6	33	42	29	2.5

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2654	26896	0.987	-0.22	27	183	1842	0.993	0.03
3	1964	17876	1.099	4.86	28	171	1771	0.966	-0.35
4	1290	13366	0.965	-1.01	29	194	1705	1.138	2.06
5	1090	10660	1.023	1.09	30	181	1640	1.104	1.58
6	946	8856	1.068	2.39	31	152	1585	0.959	-0.42
7	753	7567	0.995	0.12	32	145	1530	0.948	-0.56
8	628	6601	0.951	-1.08	33	177	1476	1.199	2.70
9	614	5850	1.050	1.53	34	137	1431	0.957	-0.44
10	518	5248	0.987	-0.10	35	150	1386	1.082	1.09
11	516	4756	1.085	2.16	36	132	1341	0.984	-0.08
12	453	4347	1.042	1.12	37	124	1300	0.954	-0.44
13	397	4000	0.993	0.04	38	120	1264	0.949	-0.50
14	353	3703	0.953	-0.76	39	131	1228	1.067	0.91
15	384	3444	1.115	2.48	40	113	1192	0.948	-0.52
16	313	3220	0.972	-0.36	41	118	1156	1.021	0.33
17	305	3021	1.010	0.34	42	111	1127	0.985	-0.07
18	281	2844	0.988	-0.05	43	98	1099	0.892	-1.09
19	255	2686	0.949	-0.71	44	97	1071	0.906	-0.94
20	241	2544	0.947	-0.75	45	105	1043	1.007	0.18
21	253	2415	1.048	0.91	46	100	1015	0.985	-0.07
22	234	2296	1.019	0.45	47	107	987	1.084	1.02
23	207	2191	0.945	-0.74	48	101	966	1.046	0.55
24	215	2093	1.027	0.54	49	89	945	0.942	-0.49
25	199	2002	0.994	0.05	50	89	924	0.963	-0.28
26	197	1920	1.026	0.53	51	102	903	1.130	1.39

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	326	30	5.29	5.66	10.8
5	325	8	0.52	15.19	10.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	16	159	0	4	6	5
4	3	281	1	0	9	1
4	228	56	1	0	9	1
5	75	41	1	2	2	6 2
4	68	28	1	7	0	3
5	2	225	2	1	0	9 1
4	111	203	2	2	5	3
4	132	24	2	7	0	3
4	248	45	3	0	2	8
4	159	94	3	4	1	5
5	33	30	3	6	8	6 2
5	114	197	3	7	1	2 2
5	138	152	4	3	4	3 0
5	36	57	6	2	7	1 7
5	18	215	6	5	7	8 9
4	215	105	6	7	2	1
4	69	240	7	0	3	7
4	42	30	7	0	9	1
4	300	24	7	5	8	5
5	81	122	8	0	7	3 5
4	186	35	8	4	7	9
4	21	29	8	9	9	2

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 0 9 7 2 8 I 4 8A
 for interpretation of this run call P 1 on x 4040

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 344 DITS 1

							HITS OBSERVED	HITS EXPECTED
0	21							
1	30	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	38	MONO IC 1.0492 SIGMAGE	3.9	344		6190	5899	
3	33	DIGRAPHIC TESTS						
4	46	DIGRAPH IC 1.170 SIGMAGE	4.1	342		682	583	
5	27	CUT A IC 1.459 SIGMAGE	5.6	171		212	145	
6	42	CUT B IC 1.459 SIGMAGE	5.6	171		212	145	
7	52	TRIGRAPHIC TESTS						
8	24	TRIGRAPH IC 1.32 SIGMAGE	2.4	340		76	57.63	
9	31	CUT A IC 0.93 SIGMAGE	-0.2	114		6	6.44	
		CUT B IC 1.90 SIGMAGE	2.3	113		12	6.33	
		CUT C IC 1.90 SIGMAGE	2.3	113		12	6.33	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	42	36	1.1	12	36	35	0.2	23	35	34	0.3
2	34	36	-0.3	13	32	35	-0.5	24	35	33	0.3
3	41	36	0.9	14	33	35	-0.3	25	27	33	-1.2
4	24	36	-2.1	15	34	34	-0.1	26	39	33	1.0
5	24	35	-2.0	16	43	34	1.6	27	32	33	-0.2
6	44	35	1.5	17	33	34	-0.2	28	34	33	0.2
7	34	35	-0.2	18	39	34	0.9	29	31	33	-0.4
8	29	35	-1.1	19	32	34	-0.4	30	28	33	-0.9
9	32	35	-0.5	20	36	34	0.4	31	32	33	-0.1
10	35	35	0.0	21	30	34	-0.7	32	42	33	1.7
11	38	35	0.6	22	36	34	0.4	33	30	33	-0.5

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3340	29412	1.136	4.96	27	217	2022	1.073	0.36
3	2148	19551	1.099	2.35	28	234	1944	1.204	2.33
4	1698	14621	1.161	4.48	29	199	1870	1.064	0.21
5	1219	11662	1.045	-0.14	30	229	1805	1.269	3.08
6	1167	9691	1.204	5.12	31	172	1739	0.989	-0.84
7	864	8282	1.043	-0.18	32	195	1681	1.160	1.55
8	830	7225	1.149	2.80	33	176	1626	1.082	0.43
9	699	6404	1.092	1.16	34	203	1571	1.292	3.16
10	661	5747	1.150	2.53	35	172	1521	1.131	1.07
11	552	5208	1.060	0.26	36	173	1477	1.171	1.59
12	580	4761	1.218	3.89	37	134	1432	0.936	-1.47
13	460	4381	1.050	0.02	38	157	1387	1.132	1.00
14	444	4056	1.095	0.97	39	154	1348	1.142	1.12
15	425	3773	1.126	1.54	40	133	1312	1.014	-0.42
16	404	3529	1.145	1.92	41	117	1277	0.916	-1.60
17	367	3311	1.108	1.12	42	138	1241	1.112	0.76
18	369	3117	1.184	2.57	43	120	1205	0.996	-0.64
19	288	2943	0.979	-1.26	44	152	1176	1.293	2.68
20	325	2789	1.165	2.09	45	134	1148	1.167	1.30
21	283	2649	1.068	0.32	46	134	1120	1.196	1.62
22	314	2520	1.246	3.35	47	115	1092	1.053	0.04
23	269	2401	1.120	1.14	48	123	1065	1.155	1.17
24	257	2297	1.119	1.12	49	107	1037	1.032	-0.19
25	230	2197	1.047	-0.03	50	117	1014	1.154	1.16
26	249	2106	1.182	2.00	51	129	993	1.299	2.75

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	338	5	5.69	0.88	-0.3
5	336	0	0.57	0.00	-0.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	101	180	6	2	6	4
4	202	95	6	6	7	9
4	63	92	7	5	8	4
4	179	86	7	6	6	4
4	29	306	7	7	9	4

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 8 7 5 6 0 I 4 8B

for interpretation of this run call P 1 on x 4040

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 344 DITS 1

							HITS OBSERVED	HITS EXPECTED
0	34							
1	37	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	21	MONO IC	1.0513	SIGMAGE	4.1	344	6202	5899
3	26	DIGRAPHIC TESTS						
4	32	DIGRAPH IC	1.067	SIGMAGE	1.6	343	626	587
5	50	CUT A IC	1.006	SIGMAGE	0.1	172	148	147
6	36	CUT B IC	0.984	SIGMAGE	-0.2	171	143	145
7	51	TRIGRAPHIC TESTS						
8	34	TRIGRAPH IC	1.17	SIGMAGE	1.3	342	68	58.31
9	23	CUT A IC	2.02	SIGMAGE	2.6	114	13	6.44
		CUT B IC	1.40	SIGMAGE	1.0	114	9	6.44
		CUT C IC	1.09	SIGMAGE	0.2	114	7	6.44

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	42	36	1.1	12	46	35	2.0	23	30	34	-0.7
2	33	36	-0.5	13	25	35	-1.7	24	45	34	2.1
3	27	36	-1.6	14	36	35	0.2	25	33	33	-0.1
4	35	36	-0.1	15	36	35	0.3	26	33	33	-0.1
5	25	36	-1.9	16	37	34	0.5	27	25	33	-1.5
6	32	35	-0.6	17	33	34	-0.2	28	39	33	1.1
7	30	35	-1.0	18	35	34	0.1	29	31	33	-0.4
8	31	35	-0.8	19	40	34	1.1	30	29	33	-0.7
9	26	35	-1.6	20	30	34	-0.7	31	29	33	-0.7
10	40	35	0.9	21	39	34	0.9	32	33	33	0.0
11	25	35	-1.8	22	41	34	1.3	33	34	33	0.2

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3059	29412	1.040	-0.63	27	187	2022	0.925	-1.89
3	2075	19551	1.061	0.47	28	200	1944	1.029	-0.33
4	1542	14620	1.055	0.16	29	193	1870	1.032	-0.27
5	1244	11662	1.067	0.58	30	189	1804	1.048	-0.04
6	1010	9690	1.042	-0.30	31	176	1738	1.013	-0.53
7	884	8281	1.068	0.51	32	185	1680	1.101	0.70
8	757	7224	1.048	-0.08	33	190	1625	1.169	1.53
9	644	6403	1.006	-1.22	34	168	1570	1.070	0.25
10	618	5746	1.076	0.63	35	162	1521	1.065	0.18
11	541	5208	1.039	-0.29	36	154	1476	1.043	-0.10
12	517	4760	1.086	0.81	37	158	1431	1.104	0.69
13	437	4381	0.997	-1.19	38	148	1386	1.068	0.20
14	436	4056	1.075	0.50	39	140	1348	1.039	-0.14
15	404	3773	1.071	0.40	40	160	1312	1.220	2.03
16	375	3528	1.063	0.24	41	120	1276	0.940	-1.33
17	348	3310	1.051	0.00	42	129	1240	1.040	-0.13
18	325	3116	1.043	-0.15	43	121	1204	1.005	-0.55
19	327	2943	1.111	1.08	44	123	1176	1.046	-0.06
20	302	2788	1.083	0.58	45	124	1148	1.080	0.32
21	278	2648	1.050	-0.02	46	133	1120	1.188	1.51
22	265	2520	1.052	0.02	47	112	1092	1.026	-0.28
23	282	2401	1.175	1.98	48	116	1064	1.090	0.43
24	245	2296	1.067	0.26	49	115	1036	1.110	0.65
25	233	2197	1.061	0.16	50	105	1014	1.036	-0.17
26	203	2106	0.964	-1.31	51	108	993	1.088	0.41

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	341	11	5.79	1.90	2.2
5	340	2	0.57	3.47	1.9

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT				
4	49	161	0	6	1	5	
4	67	195	3	7	7	7	
4	3	319	5	6	0	7	
5	86	129	6	2	7	1	4
4	24	267	7	2	8	9	
4	1	96	8	7	5	6	
4	1	147	8	7	5	6	
5	96	51	8	8	7	5	6
4	278	19	9	5	6	5	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 3 0 2 2 I 4 9A
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 225 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	24						
1	22	IC TESTS FOR SIGNIFICANCE					
2	22	MONO IC 0.9738 SIGMAGE	-1.3	225		2454	2520
3	24	DIGRAPHIC TESTS					
4	19	DIGRAPH IC 0.897 SIGMAGE	-1.6	224		224	250
5	29	CUT A IC 0.917 SIGMAGE	-0.7	112		57	62
6	21	CUT B IC 0.965 SIGMAGE	-0.3	112		60	62
7	21	TRIGRAPHIC TESTS					
8	23	TRIGRAPH IC 0.69 SIGMAGE	-1.5	223		17	24.75
9	20	CUT A IC 0.00 SIGMAGE	-1.7	75		0	2.78
		CUT B IC 1.11 SIGMAGE	0.2	74		3	2.70
		CUT C IC 0.74 SIGMAGE	-0.4	74		2	2.70

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	31	22	2.1	12	28	21	1.7	23	9	20	-2.5
2	17	22	-1.0	13	17	21	-0.8	24	25	19	1.3
3	14	22	-1.7	14	21	20	0.1	25	29	19	2.3
4	19	21	-0.6	15	18	20	-0.6	26	20	19	0.2
5	23	21	0.4	16	21	20	0.2	27	12	19	-1.7
6	15	21	-1.4	17	27	20	1.6	28	16	19	-0.7
7	21	21	0.0	18	18	20	-0.5	29	17	19	-0.5
8	19	21	-0.5	19	19	20	-0.2	30	10	19	-2.2
9	21	21	0.0	20	10	20	-2.3	31	21	19	0.5
10	25	21	1.0	21	23	20	0.8	32	31	19	3.0
11	17	21	-0.9	22	18	20	-0.4	33	20	19	0.3

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1208	12544	0.963	-0.41	27	68	828	0.821	-1.53
3	800	8325	0.961	-0.39	28	68	792	0.859	-1.04
4	614	6216	0.988	0.36	29	93	763	1.219	2.21
5	466	4950	0.941	-0.76	30	60	735	0.816	-1.42
6	390	4107	0.950	-0.50	31	62	707	0.877	-0.87
7	329	3504	0.939	-0.70	32	78	679	1.149	1.58
8	301	3052	0.986	0.22	33	67	657	1.020	0.41
9	258	2700	0.956	-0.31	34	67	636	1.053	0.63
10	213	2420	0.880	-1.50	35	54	615	0.878	-0.77
11	220	2190	1.005	0.50	36	52	594	0.875	-0.79
12	201	1998	1.006	0.48	37	52	573	0.908	-0.53
13	187	1836	1.019	0.63	38	66	555	1.189	1.72
14	148	1696	0.873	-1.41	39	62	540	1.148	1.39
15	142	1575	0.902	-0.94	40	44	525	0.838	-1.09
16	153	1470	1.041	0.87	41	47	510	0.922	-0.42
17	148	1378	1.074	1.20	42	45	495	0.909	-0.46
18	119	1296	0.918	-0.67	43	57	480	1.188	1.50
19	125	1221	1.024	0.60	44	48	465	1.032	0.41
20	96	1155	0.831	-1.57	45	51	450	1.133	1.11
21	102	1095	0.932	-0.46	46	35	440	0.795	-1.25
22	105	1040	1.010	0.40	47	46	430	1.070	0.67
23	78	990	0.788	-2.05	48	39	420	0.929	-0.32
24	87	945	0.921	-0.53	49	31	410	0.756	-1.53
25	101	900	1.122	1.48	50	42	400	1.050	0.53
26	93	864	1.076	1.02	51	37	390	0.949	-0.18

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	222	2	2.46	0.82	-0.3
5	221	0	0.25	0.00	-0.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	5	77	2 8 3 5	
4	2	94	3 0 2 2	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 7 7 6 3 9 I 4 9B

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 225 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	21							
1	23	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	23	MONO IC 0.9976 SIGMAGE	-0.1	225		2514	2520	
3	30	DIGRAPHIC TESTS						
4	24	DIGRAPH IC 0.913 SIGMAGE	-1.4	224		228	250	
5	24	CUT A IC 1.078 SIGMAGE	0.6	112		67	62	
6	19	CUT B IC 1.271 SIGMAGE	2.2	112		79	62	
7	28	TRIGRAPHIC TESTS						
8	14	TRIGRAPH IC 0.93 SIGMAGE	-0.3	223		23	24.75	
9	19	CUT A IC 0.72 SIGMAGE	-0.5	75		2	2.78	
		CUT B IC 0.37 SIGMAGE	-1.0	74		1	2.70	
		CUT C IC 1.85 SIGMAGE	1.4	74		5	2.70	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	26	22	0.8	12	26	21	1.1	23	15	20	-1.2
2	24	22	0.4	13	24	21	0.6	24	16	20	-1.0
3	25	22	0.6	14	34	21	3.0	25	20	20	0.0
4	19	22	-0.7	15	16	21	-1.1	26	24	20	1.0
5	15	22	-1.6	16	25	21	0.9	27	12	20	-1.8
6	19	22	-0.7	17	18	21	-0.6	28	25	20	1.3
7	16	22	-1.3	18	31	21	2.4	29	18	20	-0.4
8	17	22	-1.1	19	22	21	0.3	30	23	20	0.8
9	19	22	-0.6	20	24	21	0.8	31	17	19	-0.6
10	26	22	1.0	21	14	20	-1.5	32	29	19	2.3
11	14	21	-1.7	22	16	20	-1.0	33	26	19	1.6

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1409	12544	1.123	4.63	27	80	828	0.966	-0.32
3	835	8325	1.003	0.15	28	96	792	1.212	1.93
4	689	6216	1.108	2.86	29	72	763	0.944	-0.49
5	486	4950	0.982	-0.37	30	73	735	0.993	-0.05
6	454	4107	1.105	2.25	31	71	707	1.004	0.05
7	350	3504	0.999	0.02	32	81	679	1.193	1.76
8	326	3052	1.068	1.26	33	72	657	1.096	0.88
9	258	2700	0.956	-0.71	34	63	636	0.991	-0.06
10	273	2420	1.128	2.08	35	59	615	0.959	-0.31
11	197	2190	0.900	-1.57	36	54	594	0.909	-0.71
12	207	1998	1.036	0.57	37	62	573	1.082	0.67
13	175	1836	0.953	-0.63	38	82	555	1.477	3.83
14	213	1696	1.256	3.61	39	54	540	1.000	0.02
15	144	1575	0.914	-1.09	40	57	525	1.086	0.70
16	157	1470	1.068	0.91	41	52	510	1.020	0.18
17	134	1378	0.972	-0.31	42	59	495	1.192	1.36
18	144	1296	1.111	1.36	43	54	480	1.125	0.89
19	151	1221	1.237	2.87	44	39	465	0.839	-1.11
20	135	1155	1.169	1.88	45	36	450	0.800	-1.39
21	107	1095	0.977	-0.23	46	57	440	1.295	2.08
22	96	1040	0.923	-0.83	47	40	430	0.930	-0.48
23	103	990	1.040	0.46	48	43	420	1.024	0.18
24	91	945	0.963	-0.35	49	37	410	0.902	-0.67
25	86	900	0.956	-0.42	50	43	400	1.075	0.54
26	93	864	1.076	0.78	51	31	390	0.795	-1.42

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	222	2	2.46	0.82	-0.3
5	221	0	0.25	0.00	-0.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	3	140	6	3	9	3
4	56	66	7	4	3	2

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT m h e a x I 5 1

for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 470 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	20										
b	16	IC TESTS FOR SIGNIFICANCE									
c	35	MONO IC 1.1984	SIGMAGE	13.1	470				5080	4239	
d	24	DIGRAPHIC TESTS									
e	6	DIGRAPH IC 2.729	SIGMAGE	22.1	469				443	162	
f	16	CUT A IC 6.368	SIGMAGE	34.3	235				259	41	
g	28	CUT B IC 2.728	SIGMAGE	11.0	234				110	40	
h	33	TRIGRAPHIC TESTS									
i	11	TRIGRAPH IC 17.85	SIGMAGE	42.1	468				111	6.22	
j	0	CUT A IC 26.09	SIGMAGE	20.9	156				18	0.69	
k	5	CUT B IC 15.94	SIGMAGE	12.4	156				11	0.69	
l	22	CUT C IC 15.94	SIGMAGE	12.4	156				11	0.69	
m	20	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF									
o	38	1 15 22 -1.4 12 29 21		1.8	23	21	21	0.1			
p	23	2 22 22 0.1 13 18 21		-0.7	24	22	21	0.3			
q	19	3 23 21 0.3 14 29 21		1.8	25	15	20	-1.2			
r	19	4 27 21 1.2 15 16 21		-1.1	26	20	20	-0.1			
s	15	5 25 21 0.8 16 27 21		1.4	27	20	20	-0.1			
t	15	6 20 21 -0.3 17 12 21		-2.0	28	27	20	1.5			
u	19	7 21 21 -0.1 18 25 21		0.9	29	16	20	-1.0			
v	8	8 29 21 1.7 19 19 21		-0.4	30	35	20	3.4			
w	19	9 15 21 -1.4 20 25 21		1.0	31	20	20	0.0			
x	9	10 23 21 0.4 21 16 21		-1.0	32	22	20	0.4			
y	11	11 22 21 0.2 22 20 21		-0.1	33	16	20	-0.9			
z	26	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
		W HITS COMPS AVG IC SIGMAGE W HITS COMPS AVG IC SIGMAGE									
		2 2991 54990 1.414 10.15 27 163 3659 1.098 -1.20									
		3 1726 36582 1.227 1.10 28 185 3712 1.296 1.18									
		4 1489 27378 1.414 7.13 29 144 3576 1.047 -1.81									
		5 1035 21855 1.231 0.99 30 190 3450 1.432 2.81									
		6 1029 18174 1.472 7.40 31 161 3330 1.257 0.71									
		7 697 15544 1.166 -0.80 32 167 3220 1.348 1.65									
		8 746 13572 1.429 5.31 33 148 3115 1.235 0.41									
		9 549 12038 1.186 -0.26 34 152 3016 1.310 1.23									
		10 591 10810 1.421 4.68 35 142 2925 1.262 0.70									
		11 421 9807 1.116 -1.64 36 142 2834 1.303 1.16									
		12 491 8970 1.423 4.28 37 105 2754 0.991 -2.28									
		13 374 8262 1.177 -0.38 38 159 2676 1.545 3.47									
		14 400 7656 1.358 2.88 39 110 2598 1.101 -0.97									
		15 333 7130 1.214 0.27 40 131 2530 1.346 1.48									
		16 374 6670 1.458 4.16 41 131 2464 1.382 1.84									
		17 259 6264 1.075 -1.97 42 137 2398 1.485 2.87									
		18 317 5902 1.396 2.97 43 113 2335 1.258 0.60									
		19 280 5580 1.305 1.61 44 114 2280 1.300 1.02									
		20 286 5290 1.406 3.12 45 83 2225 0.970 -2.05									
		21 230 5027 1.190 -0.11 46 128 2170 1.534 3.02									
		22 239 4788 1.298 1.40 47 91 2115 1.119 -0.71									
		23 217 4570 1.235 0.52 48 113 2070 1.419 1.99									
		24 234 4370 1.392 2.52 49 96 2025 1.233 0.32									
		25 209 4185 1.298 1.30 50 122 1980 1.602 3.64									
		26 232 4014 1.503 3.97 51 79 1935 1.061 -1.23									

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	467	55	0.23	230.99	112.4
5	466	25	0.01	2739.66	262.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
5	167	16	a o h a c
5	167	202	a o h a c
4	57	114	c g h o
4	57	212	c g h o
4	57	282	c g h o
4	171	98	c g h o
4	171	168	c g h o
4	171	268	c g h o
4	269	70	c g h o
4	269	170	c g h o
10	339	100	c g h o m h m s p r
8	181	186	c p a o h a c v
4	121	24	c q y o
4	121	72	c q y o
4	295	8	e u m h
6	55	382	g r c g h o
4	29	190	l c h u
8	141	48	l f c c c q y o
4	127	48	p f g f
5	127	256	p f g f n
4	175	208	p f g f
4	417	32	q d d c
4	25	28	r h g r
4	7	70	s o z p
10	61	214	s o z b x n w s z o
4	67	328	w s z o
4	281	114	w s z o
4	45	202	z b x r
4	319	78	z o y g
4	33	210	z w v a

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT u a s k u I 6 1
 for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 394 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	41						
b	25	IC TESTS FOR SIGNIFICANCE					
c	11	MONO IC	1.6284	SIGMAGE	35.0 394	4849	2977
d	18	DIGRAPHIC TESTS					
e	7	DIGRAPH IC	3.502	SIGMAGE	26.8 393	399	114
f	10	CUT A IC	5.532	SIGMAGE	24.3 197	158	29
g	8	CUT B IC	3.431	SIGMAGE	13.0 196	97	28
h	13	TRIGRAPHIC TESTS					
i	5	TRIGRAPH IC	12.39	SIGMAGE	23.8 392	54	4.36
j	0	CUT A IC	8.33	SIGMAGE	5.1 131	4	0.48
k	10	CUT B IC	12.50	SIGMAGE	8.0 131	6	0.48
l	10	CUT C IC	12.50	SIGMAGE	8.0 130	6	0.48
m	14	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	23	OFF OBS EXP SIGMAGE	OFF OBS EXP SIGMAGE	OFF OBS EXP SIGMAGE	OFF OBS EXP SIGMAGE	OFF OBS EXP SIGMAGE	OFF OBS EXP SIGMAGE
o	23	1 9 25	-3.3 12 18 24	-1.3 23 20 23	-0.7		
p	9	2 25 25	0.1 13 20 24	-0.8 24 27 23	0.8		
q	5	3 23 25	-0.3 14 23 24	-0.2 25 23 23	-0.1		
r	45	4 32 25	1.5 15 31 24	1.5 26 23 23	0.0		
s	41	5 27 25	0.5 16 23 24	-0.2 27 22 23	-0.2		
t	2	6 19 24	-1.1 17 22 24	-0.4 28 21 23	-0.4		
u	35	7 21 24	-0.7 18 24 24	0.1 29 20 23	-0.6		
v	7	8 25 24	0.1 19 24 24	0.1 30 20 23	-0.6		
w	17	9 24 24	-0.1 20 27 24	0.7 31 10 23	-2.8		
x	8	10 27 24	0.6 21 19 23	-1.0 32 27 23	0.9		
y	6	11 18 24	-1.3 22 23 23	-0.1 33 22 23	-0.2		
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2415	38612	1.626	-0.08	27	161	2681	1.561	-0.67
3	1655	25676	1.676	1.54	28	157	2576	1.585	-0.43
4	1215	19208	1.645	0.48	29	148	2483	1.550	-0.78
5	1010	15327	1.713	2.13	30	145	2392	1.576	-0.52
6	789	12740	1.610	-0.41	31	155	2310	1.745	1.17
7	661	10892	1.578	-1.05	32	148	2232	1.724	0.86
8	608	9506	1.663	0.70	33	143	2156	1.724	0.86
9	516	8428	1.592	-0.65	34	119	2090	1.480	-1.33
10	482	7566	1.656	0.48	35	129	2024	1.657	0.26
11	423	6860	1.603	-0.43	36	118	1960	1.565	-0.57
12	375	6272	1.555	-1.17	37	131	1905	1.788	1.44
13	358	5775	1.612	-0.24	38	131	1850	1.841	1.92
14	316	5348	1.536	-1.38	39	130	1795	1.883	2.30
15	332	4979	1.734	1.48	40	124	1746	1.847	1.75
16	284	4656	1.586	-0.59	41	96	1701	1.467	-1.29
17	259	4370	1.541	-1.13	42	93	1656	1.460	-1.34
18	254	4116	1.604	-0.31	43	80	1611	1.291	-2.70
19	273	3890	1.825	2.56	44	90	1568	1.492	-1.09
20	244	3686	1.721	1.12	45	86	1532	1.460	-1.34
21	220	3501	1.634	0.07	46	111	1496	1.929	2.41
22	202	3332	1.576	-0.62	47	101	1460	1.799	1.37
23	220	3179	1.799	1.88	48	90	1424	1.643	0.12
24	197	3040	1.685	0.63	49	102	1388	1.911	2.26
25	189	2910	1.689	0.67	50	80	1358	1.532	-0.67
26	165	2790	1.538	-0.99	51	73	1330	1.427	-1.41

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	391	23	0.16	137.84	56.0
5	390	11	0.01	1721.48	137.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
8	71	188	a r o r h g r a
4	59	298	b s n a
4	117	136	f b n l
4	161	78	k s m r
5	25	74	m s s d u
5	25	198	m s s d u
6	99	124	m s s d u n
4	201	186	s p r w
6	29	214	u a r h l v
4	189	138	w b n o
4	105	72	w c a s
5	55	94	x s a u b

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 1 h q e f I 6 4

for interpretation of this run call P 1 on x 4040

MONO
COUNT

TOTAL 285 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	5										
b	11	IC TESTS FOR SIGNIFICANCE						TOTAL			
c	6	MONO IC	1.6562	SIGMAGE	26.4	285			2578	1556	
d	10	DIGRAPHIC TESTS									
e	29	DIGRAPH IC	6.544	SIGMAGE	42.9	284			389	59	
f	30	CUT A IC	6.280	SIGMAGE	20.4	142			93	15	
g	7	CUT B IC	7.428	SIGMAGE	24.8	142			110	15	
h	6	TRIGRAPHIC TESTS									
i	7	TRIGRAPH IC	43.17	SIGMAGE	63.6	283			98	2.27	
j	2	CUT A IC	56.00	SIGMAGE	27.9	95			14	0.25	
k	5	CUT B IC	44.00	SIGMAGE	21.6	94			11	0.25	
l	35	CUT C IC	52.00	SIGMAGE	25.6	94			13	0.25	
m	18	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	4	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS
o	20	1	7	18	-2.7	12	16	17	-0.4	23	21
p	11	2	17	18	-0.3	13	12	17	-1.3	24	10
q	25	3	14	18	-1.0	14	15	17	-0.6	25	25
r	6	4	16	18	-0.5	15	14	17	-0.8	26	18
s	15	5	23	18	1.2	16	15	17	-0.6	27	17
t	8	6	15	18	-0.7	17	17	17	0.0	28	20
u	1	7	23	18	1.3	18	8	17	-2.3	29	10
v	0	8	12	18	-1.4	19	17	17	0.0	30	23
w	2	9	20	18	0.6	20	20	17	0.8	31	16
x	3	10	15	18	-0.6	21	16	17	-0.2	32	21
y	13	11	15	18	-0.6	22	26	17	2.3	33	11
z	6	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1287	20164	1.659	0.08	27	97	1365	1.848	1.34
3	860	13395	1.669	0.30	28	86	1310	1.707	0.36
4	627	10011	1.628	-0.56	29	71	1260	1.465	-1.34
5	544	7980	1.772	2.09	30	109	1215	2.333	4.74
6	432	6627	1.695	0.62	31	75	1170	1.667	0.08
7	357	5660	1.640	-0.24	32	81	1128	1.867	1.48
8	301	4935	1.586	-0.98	33	63	1092	1.500	-1.09
9	282	4371	1.677	0.27	34	77	1056	1.896	1.68
10	265	3920	1.758	1.33	35	62	1020	1.580	-0.46
11	219	3550	1.604	-0.62	36	64	987	1.686	0.18
12	204	3243	1.636	-0.22	37	61	959	1.654	-0.01
13	182	2982	1.587	-0.76	38	54	931	1.508	-0.89
14	191	2760	1.799	1.57	39	53	903	1.526	-0.78
15	203	2565	2.058	4.02	40	51	875	1.515	-0.85
16	158	2397	1.714	0.58	41	50	849	1.531	-0.75
17	145	2248	1.677	0.21	42	57	828	1.790	0.80
18	130	2115	1.598	-0.52	43	53	807	1.708	0.31
19	122	1995	1.590	-0.59	44	60	786	1.985	1.97
20	128	1890	1.761	0.95	45	56	765	1.903	1.48
21	110	1794	1.594	-0.56	46	50	744	1.747	0.55
22	127	1704	1.938	2.26	47	58	723	2.086	2.15
23	100	1626	1.599	-0.46	48	44	705	1.623	-0.17
24	94	1551	1.576	-0.64	49	54	690	2.035	1.90
25	115	1485	2.013	2.86	50	43	675	1.656	0.00
26	82	1420	1.501	-1.24	51	45	660	1.773	0.59

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	282	40	0.08	461.31	135.8
5	281	16	0.01	4842.13	279.3

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LENGTH	POSITION	OFFSET	REPEATED TEXT						
4	123	125	b	l	y	b			
6	84	144	f	a	o	f	q	r	
4	27	20	f	q	e	l			
4	27	92	f	q	e	l			
4	27	101	f	q	e	l			
4	27	106	f	q	e	l			
4	27	182	f	q	e	l			
5	25	30	h	e	f	q	e		
4	2	94	h	q	e	f			
5	74	148	l	q	l	b	p		
4	70	42	o	s	l	m			
6	177	64	o	s	q	e	m	l	
4	97	107	q	e	f	f			
4	60	105	t	o	l	i			
5	46	72	y	f	q	e	l		
5	46	81	y	f	q	e	l		
5	46	86	y	f	q	e	l		
5	46	162	y	f	q	e	l		
5	118	9	y	f	q	e	l		
5	118	14	y	f	q	e	l		
5	118	90	y	f	q	e	l		
5	127	5	y	f	q	e	l		
5	127	81	y	f	q	e	l		
5	132	76	y	f	q	e	l		

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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TOTAL 260 DITS C

a	6							HITS		HITS			
b	22	IC TESTS FOR SIGNIFICANCE						TOTAL		OBSERVED		EXPECTED	
c	8	MONO IC		1.2934	SIGMAE		10.7	260	1675		1295		
d	8	DIGRAPHIC TESTS											
e	7	DIGRAPH IC		2.610	SIGMAE		11.3	259	129		49		
f	13	CUT A IC		4.837	SIGMAE		13.6	130	60		12		
g	10	CUT B IC		1.965	SIGMAE		3.4	129	24		12		
h	10	TRIGRAPHIC TESTS											
i	19	TRIGRAPH IC		12.70	SIGMAE		16.1	258	24		1.89		
j	0	CUT A IC		19.05	SIGMAE		8.3	86	4		0.21		
k	12	CUT B IC		25.81	SIGMAE		10.5	86	5		0.21		
l	8	CUT C IC		14.29	SIGMAE		6.1	86	3		0.21		
m	8	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	9	OFF	OBS	EXP	SIGMAE	OFF	OBS	EXP	SIGMAE	OFF	OBS	EXP	SIGMAE
o	2	1	12	13	-0.3	12	18	12	1.6	23	13	12	0.3
p	13	2	8	13	-1.4	13	12	12	-0.1	24	15	12	1.0
q	8	3	11	13	-0.5	14	20	12	2.3	25	8	12	-1.1
r	12	4	10	13	-0.8	15	7	12	-1.5	26	19	12	2.2
s	4	5	14	13	0.4	16	6	12	-1.8	27	14	12	0.7
t	11	6	7	13	-1.6	17	15	12	0.8	28	9	12	-0.8
u	9	7	10	13	-0.8	18	15	12	0.9	29	10	12	-0.5
v	21	8	7	13	-1.6	19	12	12	0.0	30	11	12	-0.2
w	6	9	13	13	0.1	20	5	12	-2.1	31	16	11	1.4
x	3	10	15	13	0.7	21	10	12	-0.6	32	7	11	-1.3
y	27	11	6	12	-1.9	22	13	12	0.3	33	10	11	-0.4
z	4	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	866	16770	1.343	1.30	27	56	1125	1.294	0.01
3	545	11137	1.272	-0.44	28	54	1080	1.300	0.05
4	434	8320	1.356	1.13	29	45	1036	1.129	-0.98
5	322	6630	1.263	-0.48	30	44	1000	1.144	-0.89
6	284	5504	1.342	0.74	31	49	964	1.322	0.17
7	240	4699	1.328	0.49	32	44	928	1.233	-0.36
8	216	4096	1.371	1.01	33	49	896	1.422	0.77
9	188	3626	1.348	0.66	34	50	868	1.498	1.23
10	157	3250	1.256	-0.41	35	46	840	1.424	0.79
11	141	2944	1.245	-0.53	36	47	812	1.505	1.27
12	160	2688	1.548	2.55	37	37	784	1.227	-0.40
13	147	2470	1.547	2.54	38	32	762	1.092	-1.21
14	119	2286	1.353	0.60	39	37	741	1.298	0.03
15	99	2125	1.211	-0.74	40	39	720	1.408	0.58
16	99	1984	1.297	0.04	41	31	699	1.153	-0.70
17	115	1860	1.608	2.84	42	32	678	1.227	-0.33
18	91	1750	1.352	0.47	43	51	657	2.018	3.63
19	79	1651	1.244	-0.39	44	32	640	1.300	0.04
20	77	1560	1.283	-0.08	45	30	625	1.248	-0.23
21	63	1482	1.105	-1.50	46	28	610	1.193	-0.50
22	81	1408	1.496	1.62	47	33	595	1.442	0.75
23	65	1342	1.259	-0.24	48	33	580	1.479	0.93
24	86	1280	1.747	3.18	49	24	565	1.104	-0.95
25	52	1225	1.104	-1.32	50	25	550	1.182	-0.56
26	85	1170	1.889	4.17	51	24	535	1.166	-0.64

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	257	14	0.08	194.46	52.0
5	256	9	0.01	3264.11	171.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT									
6	81	52	m	w	p	y	f	y				
4	1	14	n	b	b	v						
5	128	78	t	i	q	n	y					
8	101	72	y	c	a	v	e	g	h	i		
6	39	172	y	f	q	t	b	v				

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 0 0 3 3 1 I 7 4

for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 324 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	47							
1	62	IC TESTS FOR SIGNIFICANCE						
2	40	MONO IC 1.1325 SIGMAGE	10.1	324		5926	5232	
3	33	DIGRAPHIC TESTS						
4	29	DIGRAPH IC 1.436 SIGMAGE	10.0	323		747	520	
5	22	CUT A IC 1.396 SIGMAGE	4.6	162		182	130	
6	26	CUT B IC 1.382 SIGMAGE	4.4	161		178	129	
7	25	TRIGRAPHIC TESTS						
8	18	TRIGRAPH IC 2.73 SIGMAGE	12.5	322		141	51.68	
9	22	CUT A IC 8.30 SIGMAGE	17.6	108		48	5.78	
		CUT B IC 4.94 SIGMAGE	9.4	107		28	5.67	
		CUT C IC 4.94 SIGMAGE	9.4	107		28	5.67	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	35	36	-0.3	12	46	35	1.9	23	29	34	-0.9
2	28	36	-1.5	13	29	35	-1.1	24	47	34	2.4
3	34	36	-0.4	14	32	35	-0.5	25	26	34	-1.4
4	29	36	-1.3	15	34	35	-0.2	26	24	34	-1.8
5	38	36	0.3	16	36	35	0.2	27	44	34	1.9
6	40	36	0.7	17	29	35	-1.0	28	34	33	0.1
7	35	36	-0.1	18	35	35	0.1	29	27	33	-1.2
8	36	36	0.1	19	26	34	-1.5	30	35	33	0.3
9	38	36	0.4	20	27	34	-1.3	31	30	33	-0.6
10	31	35	-0.8	21	44	34	1.8	32	34	33	0.2
11	33	35	-0.4	22	28	34	-1.1	33	39	33	1.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2928	26082	1.123	-0.54	27	230	1782	1.291	2.21
3	2331	17334	1.345	9.33	28	176	1716	1.026	-1.50
4	1432	12960	1.105	-1.06	29	177	1650	1.073	-0.84
5	1200	10336	1.161	0.95	30	221	1590	1.390	3.34
6	1146	8586	1.335	6.26	31	180	1535	1.173	0.52
7	831	7337	1.133	0.00	32	164	1480	1.108	-0.33
8	720	6400	1.125	-0.22	33	202	1431	1.412	3.63
9	758	5670	1.337	5.10	34	134	1386	0.967	-1.99
10	592	5088	1.164	0.74	35	143	1341	1.066	-0.80
11	529	4611	1.147	0.32	36	168	1296	1.296	1.96
12	569	4212	1.351	4.80	37	139	1260	1.103	-0.36
13	436	3876	1.125	-0.17	38	144	1224	1.176	0.52
14	390	3588	1.087	-0.92	39	170	1188	1.431	3.58
15	458	3339	1.372	4.54	40	137	1152	1.189	0.62
16	367	3120	1.176	0.82	41	126	1120	1.125	-0.09
17	306	2926	1.046	-1.57	42	145	1092	1.328	2.15
18	358	2754	1.300	3.01	43	112	1064	1.053	-0.88
19	281	2601	1.080	-0.90	44	104	1036	1.004	-1.42
20	282	2464	1.144	0.19	45	141	1008	1.399	2.93
21	311	2340	1.329	3.14	46	102	980	1.041	-0.92
22	244	2226	1.096	-0.59	47	125	957	1.306	1.73
23	240	2121	1.132	-0.02	48	132	936	1.410	2.77
24	287	2028	1.415	4.23	49	97	915	1.060	-0.73
25	241	1938	1.244	1.67	50	112	894	1.253	1.20
26	190	1860	1.022	-1.55	51	112	873	1.283	1.50

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	321	37	5.13	7.20	14.1
5	320	11	0.52	21.55	14.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	124	153	0 7 1 0	
4	40	134	1 1 5 0	
7	91	51	1 1 5 3	9 3 2
6	52	159	1 4 1 0	7 2
4	112	96	1 8 6 1	
4	73	150	1 8 9 0	
4	193	90	2 7 4 4	
6	4	75	3 1 5 0	9 7
4	156	51	3 1 8 6	
4	156	141	3 1 8 6	
4	180	27	3 1 8 6	
4	180	117	3 1 8 6	
4	207	90	3 1 8 6	
4	94	225	3 9 3 2	
4	145	174	3 9 3 2	
4	88	207	4 0 3 1	
4	108	33	6 1 1 5	
6	183	36	6 5 1 6	1 8
4	20	99	6 7 2 1	
4	149	103	7 1 0 5	
4	9	161	7 1 1 4	
4	215	76	7 2 2 3	
4	75	162	9 0 6 7	
4	63	39	9 1 9 2	
4	65	246	9 2 0 1	
6	155	24	9 3 1 8	6 5

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT m r a d m I 7 5

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MONO
COUNT

TOTAL 405 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	6										
b	3	IC TESTS FOR SIGNIFICANCE									
c	17	MONO IC 1.2493	SIGMAGE	14.2	405				3931	3146	
d	26	DIGRAPHIC TESTS									
e	14	DIGRAPH IC 2.184	SIGMAGE	13.0	404				263	120	
f	16	CUT A IC 2.164	SIGMAGE	6.4	202				65	30	
g	24	CUT B IC 2.264	SIGMAGE	6.9	202				68	30	
h	5	TRIGRAPHIC TESTS									
i	33	TRIGRAPH IC 7.16	SIGMAGE	13.2	403				33	4.61	
j	20	CUT A IC 9.80	SIGMAGE	6.3	134				5	0.51	
k	7	CUT B IC 27.45	SIGMAGE	19.0	135				14	0.51	
l	18	CUT C IC 27.45	SIGMAGE	18.9	134				14	0.51	
m	36	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	23	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	12	1 16 19 -0.8 12 14 19 -1.1							23 17 18 -0.3		
p	24	2 17 19 -0.5 13 20 19 0.3							24 20 18 0.4		
q	10	3 16 19 -0.8 14 18 19 -0.2							25 18 18 -0.1		
r	21	4 21 19 0.4 15 29 19 2.4							26 23 18 1.2		
s	8	5 13 19 -1.4 16 26 19 1.7							27 16 18 -0.5		
t	21	6 24 19 1.1 17 15 19 -0.9							28 14 18 -1.0		
u	6	7 19 19 0.0 18 21 19 0.6							29 12 18 -1.5		
v	17	8 27 19 1.9 19 26 19 1.8							30 27 18 2.2		
w	11	9 21 19 0.5 20 25 18 1.6							31 24 18 1.5		
x	3	10 17 19 -0.5 21 24 18 1.3							32 21 18 0.7		
y	10	11 19 19 0.0 22 14 18 -1.0							33 22 18 1.0		
z	14	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1986	40804	1.265	0.64	27	133	2835	1.220	-0.32
3	1422	27135	1.363	3.76	28	119	2730	1.133	-1.16
4	995	20301	1.274	0.73	29	122	2626	1.208	-0.41
5	793	16200	1.273	0.60	30	142	2535	1.456	2.07
6	694	13467	1.340	2.09	31	123	2444	1.309	0.60
7	555	11514	1.253	0.08	32	116	2364	1.276	0.27
8	502	10050	1.299	1.00	33	123	2286	1.399	1.50
9	446	8910	1.301	0.99	34	102	2211	1.199	-0.45
10	392	8000	1.274	0.45	35	110	2145	1.333	0.76
11	343	7254	1.229	-0.34	36	112	2079	1.401	1.37
12	332	6633	1.301	0.83	37	92	2015	1.187	-0.56
13	292	6107	1.243	-0.10	38	90	1960	1.194	-0.50
14	263	5656	1.209	-0.60	39	105	1905	1.433	1.66
15	301	5265	1.486	3.56	40	96	1850	1.349	0.90
16	244	4925	1.288	0.55	41	83	1800	1.199	-0.45
17	207	4623	1.164	-1.19	42	86	1755	1.274	0.20
18	207	4356	1.236	-0.17	43	74	1710	1.125	-0.99
19	189	4116	1.194	-0.72	44	83	1665	1.296	0.38
20	195	3900	1.300	0.66	45	92	1620	1.477	1.82
21	192	3705	1.347	1.18	46	80	1584	1.313	0.51
22	168	3528	1.238	-0.13	47	90	1548	1.512	2.10
23	167	3366	1.290	0.49	48	78	1512	1.341	0.74
24	171	3216	1.382	1.46	49	83	1476	1.462	1.70
25	150	3080	1.266	0.19	50	65	1440	1.174	-0.60
26	134	2955	1.179	-0.77	51	71	1407	1.312	0.50

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	402	14	0.17	79.38	33.0
5	401	9	0.01	1331.00	109.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
5	104	21	d g k f w
11	257	39	e m f j p c s m k j l
4	53	117	g c i i
4	44	30	l g i d
5	84	282	o v g i p

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 0 6 0 1 7 I 7 6

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MONO
COUNT

TOTAL 319 DITS 0

						HITS OBSERVED	HITS EXPECTED
0	28						
1	46	IC TESTS FOR SIGNIFICANCE			TOTAL		
2	33	MONO IC 1.0538 SIGMAGE	4.0	319	5345	5072	
3	31	DIGRAPHIC TESTS					
4	39	DIGRAPH IC 1.165 SIGMAGE	3.7	318	587	504	
5	30	CUT A IC 1.353 SIGMAGE	4.0	159	170	126	
6	24	CUT B IC 1.314 SIGMAGE	3.5	159	165	126	
7	47	TRIGRAPHIC TESTS					
8	18	TRIGRAPH IC 1.46 SIGMAGE	3.3	317	73	50.09	
9	23	CUT A IC 1.08 SIGMAGE	0.2	106	6	5.57	
		CUT B IC 2.33 SIGMAGE	3.2	106	13	5.57	
		CUT C IC 1.47 SIGMAGE	1.1	105	8	5.46	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	29	33	-0.8	12	40	32	1.4	23	25	31	-1.2
2	36	33	0.5	13	31	32	-0.2	24	35	31	0.8
3	33	33	0.0	14	31	32	-0.2	25	22	31	-1.7
4	34	33	0.2	15	39	32	1.3	26	33	31	0.4
5	17	33	-2.9	16	37	32	1.0	27	32	31	0.3
6	34	33	0.2	17	35	32	0.6	28	33	31	0.5
7	28	33	-0.9	18	38	32	1.2	29	35	30	0.9
8	32	33	-0.1	19	28	32	-0.7	30	37	30	1.3
9	28	33	-0.8	20	39	31	1.4	31	20	30	-2.0
10	25	32	-1.4	21	33	31	0.3	32	30	30	0.0
11	13	32	-3.6	22	25	31	-1.2	33	31	30	0.2

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2792	25281	1.104	2.65	27	182	1727	1.054	0.00
3	1835	16801	1.092	1.63	28	190	1661	1.144	1.26
4	1436	12561	1.143	3.29	29	190	1595	1.191	1.78
5	1071	10017	1.069	0.50	30	168	1540	1.091	0.48
6	945	8321	1.136	2.46	31	119	1485	0.801	-3.29
7	750	7110	1.055	0.03	32	151	1431	1.055	0.01
8	699	6201	1.127	1.90	33	159	1386	1.147	1.12
9	580	5495	1.056	0.05	34	149	1341	1.111	0.68
10	542	4929	1.100	1.06	35	143	1296	1.103	0.59
11	477	4466	1.068	0.31	36	144	1256	1.146	1.10
12	470	4082	1.151	2.04	37	127	1220	1.041	-0.16
13	453	3756	1.206	3.04	38	129	1184	1.090	0.43
14	388	3476	1.116	1.24	39	144	1148	1.254	2.20
15	360	3234	1.113	1.12	40	121	1113	1.087	0.36
16	333	3021	1.102	0.86	41	106	1085	0.977	-0.85
17	314	2835	1.108	0.97	42	113	1057	1.069	0.17
18	293	2669	1.098	0.75	43	97	1029	0.943	-1.22
19	261	2520	1.036	-0.31	44	133	1001	1.329	3.03
20	278	2385	1.166	1.79	45	98	973	1.007	-0.47
21	225	2265	0.993	-0.98	46	105	948	1.108	0.54
22	248	2156	1.150	1.54	47	81	927	0.874	-1.80
23	211	2054	1.027	-0.41	48	100	906	1.104	0.50
24	226	1963	1.151	1.46	49	85	885	0.960	-0.94
25	217	1878	1.155	1.41	50	100	864	1.157	1.03
26	214	1800	1.189	1.89	51	87	843	1.032	-0.22

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	316	13	4.97	2.61	3.6
5	315	5	0.50	10.11	6.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	85	224	1	4	3	8
4	30	11	2	4	0	1
8	13	243	2	5	3	3
4	23	39	3	1	4	2
5	64	152	4	2	1	4
4	130	20	4	5	7	3
4	197	73	5	6	1	2
4	143	66	5	7	6	1

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 7 8 1 3 1 I 8 1
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 314 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	31							
1	36	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	11	MONO IC 1.2356 SIGMAGE	17.4	314			6072	4914
3	52	DIGRAPHIC TESTS						
4	31	DIGRAPH IC 2.023 SIGMAGE	22.8	313			988	488
5	20	CUT A IC 2.074 SIGMAGE	12.0	157			254	122
6	23	CUT B IC 2.184 SIGMAGE	13.1	156			264	121
7	66	TRIGRAPHIC TESTS						
8	31	TRIGRAPH IC 3.59 SIGMAGE	18.1	312			174	48.52
9	13	CUT A IC 3.17 SIGMAGE	5.0	104			17	5.36
		CUT B IC 2.99 SIGMAGE	4.6	104			16	5.36
		CUT C IC 3.54 SIGMAGE	5.9	104			19	5.36

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	38	39	-0.1	12	32	37	-1.0	23	42	36	1.1
2	42	39	0.6	13	40	37	0.5	24	29	36	-1.2
3	31	39	-1.3	14	44	37	1.2	25	33	36	-0.5
4	37	38	-0.2	15	38	37	0.2	26	41	36	0.9
5	40	38	0.3	16	37	37	0.0	27	26	36	-1.7
6	36	38	-0.4	17	36	37	-0.1	28	33	35	-0.4
7	40	38	0.3	18	45	37	1.5	29	39	35	0.7
8	41	38	0.5	19	36	37	-0.1	30	29	35	-1.1
9	46	38	1.4	20	38	36	0.3	31	35	35	0.0
10	37	38	-0.1	21	40	36	0.7	32	37	35	0.4
11	39	38	0.2	22	33	36	-0.6	33	33	35	-0.3

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3013	24492	1.230	-0.31	27	201	1672	1.202	-0.48
3	1946	16276	1.196	-1.72	28	184	1606	1.146	-1.17
4	1468	12168	1.206	-1.11	29	191	1545	1.236	0.00
5	1202	9703	1.239	0.10	30	184	1490	1.235	-0.01
6	963	8060	1.195	-1.23	31	182	1435	1.268	0.42
7	847	6886	1.230	-0.17	32	174	1386	1.255	0.23
8	720	6006	1.199	-0.96	33	154	1341	1.148	-1.06
9	647	5321	1.216	-0.48	34	159	1296	1.227	-0.11
10	588	4774	1.232	-0.09	35	160	1252	1.278	0.50
11	507	4326	1.172	-1.41	36	139	1216	1.143	-1.12
12	464	3952	1.174	-1.30	37	146	1180	1.237	0.01
13	449	3636	1.235	-0.02	38	150	1144	1.311	0.83
14	426	3366	1.266	0.57	39	130	1108	1.173	-0.69
15	390	3130	1.246	0.19	40	119	1078	1.104	-1.45
16	351	2926	1.200	-0.65	41	139	1050	1.324	0.97
17	329	2745	1.199	-0.63	42	124	1022	1.213	-0.25
18	308	2584	1.192	-0.75	43	138	994	1.388	1.67
19	286	2440	1.172	-1.02	44	114	966	1.180	-0.56
20	272	2310	1.177	-0.94	45	120	939	1.278	0.42
21	263	2191	1.200	-0.58	46	119	918	1.296	0.60
22	248	2086	1.189	-0.71	47	111	897	1.237	0.01
23	246	1989	1.237	0.02	48	100	876	1.142	-0.94
24	209	1898	1.101	-2.03	49	91	855	1.064	-1.72
25	242	1818	1.331	1.33	50	109	834	1.307	0.71
26	214	1740	1.230	-0.08	51	94	813	1.156	-0.80

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	311	38	4.83	7.88	15.2
5	310	8	0.47	16.70	10.9

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	173	54	0 3 4	7
5	147	43	0 7 2	7 6
4	66	218	2 4 7	8
9	43	154	3 1 0	1 7 9 9 7 8
5	95	23	3 1 3	4 7
4	165	14	3 1 7	8
4	38	51	3 4 0	1
4	78	42	3 4 7	6
4	78	150	3 4 7	6
4	120	108	3 4 7	6
4	33	71	4 6 5	3
4	25	260	4 7 8	0
4	106	110	5 3 2	3
4	129	92	5 7 7	7
4	145	48	7 6 0	7
4	145	101	7 6 0	7
4	193	53	7 6 0	7
4	137	93	7 6 3	7
4	55	182	7 6 4	4
4	26	155	7 8 0	7
4	50	43	7 8 3	1
4	50	113	7 8 3	1
5	50	259	7 8 3	1 8
4	93	70	7 8 3	1
4	93	216	7 8 3	1
4	163	146	7 8 3	1
4	68	54	7 8 7	4
4	68	140	7 8 7	4
4	132	76	7 8 7	4
4	19	117	8 7 6	3

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 7 6 3 1 I 8 3
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 190 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	9							
1	16	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	24	MONO IC 1.2036 SIGMAGE	9.1	190		2161	1795	
3	20	DIGRAPHIC TESTS						
4	18	DIGRAPH IC 2.471 SIGMAGE	19.8	189		439	178	
5	4	CUT A IC 2.172 SIGMAGE	7.9	95		97	45	
6	35	CUT B IC 2.768 SIGMAGE	11.8	94		121	44	
7	29	TRIGRAPHIC TESTS						
8	27	TRIGRAPH IC 7.34 SIGMAGE	26.7	188		129	17.58	
9	8	CUT A IC 6.67 SIGMAGE	8.0	63		13	1.95	
		CUT B IC 9.23 SIGMAGE	11.6	63		18	1.95	
		CUT C IC 7.94 SIGMAGE	9.6	62		15	1.89	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	7	23	-3.5	12	37	21	3.6	23	18	20	-0.5
2	14	23	-1.9	13	18	21	-0.7	24	22	20	0.5
3	8	22	-3.3	14	29	21	1.8	25	12	20	-1.9
4	33	22	2.4	15	14	21	-1.6	26	22	20	0.6
5	29	22	1.5	16	35	21	3.3	27	18	20	-0.4
6	18	22	-0.9	17	12	21	-2.1	28	30	19	2.6
7	22	22	0.0	18	20	21	-0.2	29	18	19	-0.3
8	25	22	0.7	19	21	21	0.1	30	16	19	-0.8
9	17	22	-1.1	20	29	20	2.0	31	11	19	-2.0
10	19	22	-0.6	21	27	20	1.6	32	27	19	2.0
11	21	21	-0.1	22	15	20	-1.2	33	25	19	1.5

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1116	8930	1.250	1.47	27	68	574	1.185	-0.15
3	710	5922	1.199	-0.13	28	81	552	1.467	2.10
4	634	4418	1.435	5.08	29	68	531	1.281	0.62
5	425	3515	1.209	0.10	30	60	510	1.176	-0.22
6	345	2914	1.184	-0.36	31	43	489	0.879	-2.28
7	293	2484	1.180	-0.41	32	68	470	1.447	1.70
8	282	2162	1.304	1.60	33	69	455	1.516	2.18
9	224	1911	1.172	-0.48	34	52	440	1.182	-0.15
10	214	1710	1.251	0.66	35	47	425	1.106	-0.69
11	193	1547	1.248	0.57	36	46	410	1.122	-0.57
12	191	1410	1.355	1.96	37	54	395	1.367	1.14
13	166	1295	1.282	0.94	38	41	380	1.079	-0.88
14	148	1196	1.237	0.40	39	51	370	1.378	1.04
15	131	1110	1.180	-0.26	40	43	360	1.194	-0.06
16	146	1034	1.412	2.29	41	43	350	1.229	0.15
17	104	968	1.074	-1.30	42	31	340	0.912	-1.75
18	103	910	1.132	-0.72	43	36	330	1.091	-0.68
19	102	855	1.193	-0.11	44	43	320	1.544	0.84
20	112	810	1.383	1.79	45	37	310	1.194	-0.06
21	89	765	1.163	-0.37	46	29	300	0.967	-1.42
22	83	728	1.140	-0.58	47	37	290	1.276	0.43
23	76	692	1.098	-0.95	48	26	282	0.922	-1.69
24	68	658	1.033	-1.54	49	27	276	0.978	-1.36
25	73	630	1.159	-0.36	50	35	270	1.296	0.55
26	87	602	1.445	1.93	51	28	264	1.061	-0.72

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	187	54	1.73	31.05	39.9
5	186	24	0.18	139.45	57.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
7	47	87	0 7 3 6 9 7 7 3
8	97	69	0 8 4 6 2 8 7 3
5	17	4	1 2 7 4 1 8
6	65	97	2 1 3 8 0 8
4	40	14	2 8 4 6 6
5	40	52	2 8 4 6 6
4	40	146	2 8 4 6 6
4	30	143	3 1 6 0 0
4	4	111	3 1 8 2 2
4	12	64	4 6 2 8 8
4	12	87	4 6 2 8 8
6	12	116	4 6 2 8 8 3 1
4	12	156	4 6 2 8 8
5	76	23	4 6 2 8 8 7
5	76	92	4 6 2 8 8 7
4	99	29	4 6 2 8 8
4	128	40	4 6 2 8 8
6	72	5	6 2 8 7 4 6
4	72	28	6 2 8 7 7
4	72	97	6 2 8 7 7
5	53	38	7 2 8 4 6 6
5	53	132	7 2 8 4 6 6
5	91	94	7 2 8 4 6 6
4	151	21	7 3 1 6 7
5	48	75	7 3 6 9 7 7
5	123	12	7 3 6 9 7 8
5	75	52	7 4 6 2 8
4	2	156	7 6 3 1 1
4	88	21	7 8 8 7 7
5	120	28	9 6 2 7 3

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 6 1 7 4 5 I 8 6
 for interpretation of this run call P 1 on x 4040

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MONO
COUNT

TOTAL 209 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	26						
1	24	IC TESTS FOR SIGNIFICANCE					
2	26	MONO IC	1.1014	SIGMAGE	5.0 209	2394	2173
3	31	DIGRAPHIC TESTS					
4	26	DIGRAPH IC	2.244	SIGMAGE	18.4 208	483	215
5	27	CUT A IC	2.203	SIGMAGE	8.9 104	118	54
6	19	CUT B IC	2.054	SIGMAGE	7.8 104	110	54
7	6	TRIGRAPHIC TESTS					
8	15	TRIGRAPH IC	5.53	SIGMAGE	21.0 207	118	21.32
9	9	CUT A IC	6.38	SIGMAGE	8.3 69	15	2.35
		CUT B IC	5.11	SIGMAGE	6.3 69	12	2.35
		CUT C IC	8.51	SIGMAGE	11.6 69	20	2.35

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	6	23	-3.7	12	25	22	0.8	23	19	20	-0.3
2	18	23	-1.1	13	28	22	1.5	24	15	20	-1.3
3	20	23	-0.6	14	26	21	1.0	25	20	20	-0.1
4	16	23	-1.5	15	24	21	0.6	26	15	20	-1.2
5	29	22	1.5	16	15	21	-1.4	27	26	20	1.4
6	28	22	1.3	17	25	21	0.9	28	19	20	-0.2
7	23	22	0.2	18	19	21	-0.5	29	23	20	0.8
8	26	22	0.9	19	16	21	-1.1	30	19	20	-0.2
9	25	22	0.2	20	16	21	-1.1	31	24	20	1.1
10	20	22	-0.4	21	28	21	1.7	32	16	19	-0.8
11	11	22	-2.5	22	27	21	1.5	33	10	19	-2.3

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1180	10816	1.091	-0.35	27	86	707	1.216	1.04
3	796	7176	1.109	0.22	28	73	679	1.075	-0.23
4	579	5356	1.081	-0.48	29	83	651	1.275	1.57
5	456	4264	1.069	-0.70	30	63	624	1.010	-0.73
6	402	3536	1.137	0.72	31	75	603	1.244	1.14
7	336	3016	1.114	0.23	32	58	582	0.997	-0.83
8	278	2626	1.059	-0.71	33	61	561	1.087	-0.11
9	268	2323	1.154	0.85	34	67	540	1.241	1.12
10	216	2080	1.038	-0.95	35	48	520	0.923	-1.42
11	200	1881	1.063	-0.53	36	72	505	1.426	2.60
12	205	1717	1.194	1.30	37	61	490	1.245	1.01
13	194	1576	1.231	1.69	38	57	475	1.200	0.69
14	148	1456	1.016	-1.11	39	53	460	1.152	0.36
15	137	1352	1.013	-1.06	40	49	445	1.101	0.00
16	119	1261	0.944	-1.88	41	40	430	0.930	-1.20
17	141	1182	1.193	1.01	42	41	416	0.986	-0.81
18	128	1111	1.152	0.56	43	53	406	1.305	1.43
19	108	1045	1.033	-0.75	44	40	396	1.010	-0.64
20	100	990	1.010	-1.00	45	32	386	0.829	-1.90
21	106	936	1.132	0.31	46	38	376	1.011	-0.63
22	103	891	1.156	0.55	47	37	366	1.011	-0.54
23	92	846	1.087	-0.14	48	39	356	1.096	-0.03
24	93	808	1.151	0.50	49	34	346	0.983	-0.71
25	77	772	0.997	-0.94	50	35	336	1.042	-0.35
26	95	736	1.291	1.71	51	33	326	1.012	-0.53

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	206	30	2.12	14.21	19.3
5	205	7	0.20	33.48	14.9

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT						
4	15	67	0	4	3	2			
5	8	36	1	2	0	4	3		
5	8	72	1	2	0	4	3		
5	44	36	1	2	0	4	3		
4	31	56	1	- 5	0	3			
4	9	63	2	0	4	3			
4	9	144	2	0	4	3			
4	9	187	2	0	4	3			
4	45	27	2	0	4	3			
4	45	108	2	0	4	3			
4	45	151	2	0	4	3			
4	72	9	2	0	4	3			
4	72	81	2	0	4	3			
7	72	124	2	0	4	3	8	5	4
4	81	72	2	0	4	3			
4	81	115	2	0	4	3			
4	153	43	2	0	4	3			
5	84	74	3	2	0	1	5		
4	25	- 9	3	2	0	6			
4	24	170	3	3	2	0			
4	4	136	4	5	0	4			
4	115	7	5	0	9	2			
4	71	60	6	2	0	4			

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT p v o y a I 8 7
 for interpretation of this run call P 1 on x 4040

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 244 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	13	IC TESTS FOR SIGNIFICANCE									
c	12	MONO IC	1.3068	SIGMAGE	10.5	244			1490	1140	
d	8	DIGRAPHIC TESTS									
e	22	DIGRAPH IC	3.725	SIGMAGE	18.0	243			162	43	
f	2	CUT A IC	3.114	SIGMAGE	7.0	122			34	11	
g	11	CUT B IC	3.818	SIGMAGE	9.3	121			41	11	
h	4	TRIGRAPHIC TESTS									
i	12	TRIGRAPH IC	13.25	SIGMAGE	15.8	242			22	1.66	
j	0	CUT A IC	11.11	SIGMAGE	4.4	81			2	0.18	
k	14	CUT B IC	16.67	SIGMAGE	6.8	81			3	0.18	
l	3	CUT C IC	5.56	SIGMAGE	1.9	80			1	0.18	
m	4	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	12	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	21	1 4 12 -2.4 12 14 12 0.7 23 10 11 -0.3									
p	13	2 4 12 -2.4 13 10 12 -0.5 24 11 11 0.0									
q	0	3 6 12 -1.8 14 18 12 2.0 25 7 11 -1.2									
r	9	4 16 12 1.2 15 16 11 1.4 26 16 11 1.6									
s	2	5 9 12 -0.9 16 13 11 0.5 27 9 11 -0.6									
t	10	6 15 12 0.9 17 8 11 -1.0 28 15 11 1.3									
u	12	7 13 12 0.3 18 15 11 1.1 29 10 11 -0.2									
v	6	8 15 12 1.0 19 10 11 -0.4 30 10 11 -0.2									
w	12	9 6 12 -1.7 20 12 11 0.2 31 15 11 1.4									
x	6	10 11 12 -0.2 21 8 11 -1.0 32 9 11 -0.5									
y	15	11 18 12 1.9 22 16 11 1.5 33 9 11 -0.5									
z	3	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	737	14762	1.298	-0.22	27	48	981	1.272	-0.21
3	480	9801	1.273	-0.68	28	57	944	1.570	1.58
4	358	7320	1.272	-0.60	29	46	908	1.317	0.06
5	297	5832	1.324	0.26	30	42	872	1.252	-0.33
6	242	4840	1.300	-0.10	31	39	840	1.207	-0.60
7	222	4131	1.397	1.17	32	37	812	1.185	-0.73
8	192	3600	1.387	0.96	33	43	784	1.426	0.71
9	170	318	1.387	0.88	34	21	756	0.722	-3.51
10	142	2856	1.293	-0.15	35	37	729	1.320	0.07
11	138	2585	1.388	0.81	36	31	708	1.138	-0.85
12	107	2360	1.179	-1.28	37	36	687	1.362	0.28
13	112	2169	1.343	0.32	38	29	666	1.132	-0.88
14	115	2006	1.491	1.66	39	35	645	1.411	0.52
15	96	1864	1.339	0.29	40	36	624	1.500	0.97
16	88	1740	1.315	0.06	41	33	605	1.418	0.56
17	69	1631	1.100	-1.66	42	32	590	1.410	0.52
18	81	1534	1.373	0.53	43	24	575	1.085	-1.11
19	72	1446	1.295	-0.10	44	22	560	1.021	-1.43
20	67	1368	1.273	-0.24	45	32	545	1.527	1.10
21	74	1298	1.482	1.23	46	26	530	1.275	-0.16
22	69	1232	1.456	1.04	47	25	515	1.262	-0.23
23	52	1175	1.151	-1.09	48	20	500	1.040	-1.07
24	56	1120	1.300	-0.05	49	17	486	0.909	-1.59
25	41	1071	0.995	-2.18	50	19	476	1.038	-1.08
26	58	1026	1.470	0.98	51	21	466	1.172	-0.54

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	241	2	0.07	31.60	7.7
5	240	1	0.01	414.27	20.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	29	127	a p w o i

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 7 1 6 6 5 I 8 9

for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 315 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	30						
1	33	IC TESTS FOR SIGNIFICANCE					
2	46	MONO IC 1.0266 SIGMAGE			1.9 315	5077	4945
3	34	DIGRAPHIC TESTS					
4	30	DIGRAPH IC 1.225 SIGMAGE			5.0 314	602	491
5	37	CUT A IC 1.045 SIGMAGE			0.5 157	128	122
6	25	CUT B IC 1.347 SIGMAGE			3.9 157	165	122
7	36	TRIGRAPHIC TESTS					
8	17	TRIGRAPH IC 2.17 SIGMAGE			8.2 313	106	48.83
9	27	CUT A IC 1.83 SIGMAGE			1.9 105	10	5.46
		CUT B IC 1.12 SIGMAGE			0.3 104	6	5.36
		CUT C IC 1.87 SIGMAGE			2.0 104	10	5.36

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	28	32	-0.8	12	30	31	-0.2	23	33	30	0.6
2	27	32	-1.0	13	30	31	-0.2	24	34	30	0.8
3	42	32	1.8	14	30	31	-0.2	25	33	30	0.6
4	32	32	0.0	15	23	31	-1.5	26	35	30	1.0
5	28	32	-0.7	16	31	31	0.0	27	31	30	0.3
6	27	32	-0.9	17	37	31	1.2	28	26	30	-0.7
7	33	32	0.2	18	25	31	-1.1	29	32	29	0.5
8	42	32	1.9	19	18	30	-2.4	30	30	29	0.1
9	32	32	0.1	20	33	30	0.5	31	34	29	0.9
10	24	31	-1.4	21	27	30	-0.6	32	24	29	-1.0
11	27	31	-0.8	22	20	30	-2.0	33	30	29	0.2

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2484	24649	1.008	-0.99	27	167	1683	0.992	-0.49
3	1654	16380	1.010	-0.73	28	176	1617	1.088	0.79
4	1238	12246	1.011	-0.59	29	170	1555	1.093	0.86
5	985	9765	1.009	-0.59	30	142	1500	0.947	-1.04
6	803	8112	0.990	-1.11	31	143	1445	0.990	-0.48
7	699	6930	1.009	-0.50	32	144	1395	1.032	0.06
8	625	6045	1.034	0.18	33	134	1350	0.993	-0.41
9	513	5355	0.958	-1.66	34	132	1305	1.011	-0.19
10	493	4805	1.026	-0.02	35	121	1260	0.960	-0.80
11	428	4354	0.983	-0.97	36	116	1224	0.948	-0.95
12	407	3978	1.023	-0.08	37	144	1188	1.212	2.22
13	391	3660	1.068	0.82	38	99	1152	0.859	-1.85
14	336	3388	0.992	-0.67	39	112	1116	1.004	-0.25
15	302	3150	0.959	-1.29	40	113	1085	1.041	0.15
16	293	2945	0.995	-0.58	41	111	1057	1.050	0.25
17	305	2763	1.104	1.39	42	87	1029	0.845	-2.00
18	236	2601	0.907	-2.04	43	113	1001	1.129	1.12
19	231	2456	0.941	-1.46	44	97	973	0.997	-0.30
20	239	2325	1.028	0.02	45n	83	945	0.878	-1.49
21	201	2205	0.912	-1.84	46	90	924	0.974	-0.53
22	190	2100	0.905	-1.83	47	102	903	1.130	1.03
23	207	2002	1.034	0.11	48	91	882	1.032	0.05
24	186	1911	0.973	-0.81	49	96	861	1.115	0.88
25	185	1830	1.011	-0.22	50	82	840	0.976	-0.51
26	197	1752	1.124	1.36	51	91	819	1.111	0.84

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	312	30	4.86	6.18	11.5
5	311	14	0.49	29.04	19.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	37	89	0 9 4 0	
4	37	97	0 9 4 0	
4	126	8	0 9 4 0	
4	18	83	2 2 1 3	
4	18	144	2 2 1 3	
10	99	61	2 4 2 2	1 3 2 7 1 9
4	105	102	2 7 1 9	
4	166	41	2 7 1 9	
7	93	47	3 0 1 0	7 8 2
8	12	246	3 4 9 2	2 5 2 2
4	21	197	3 9 2 2	
5	241	64	6 3 4 9	4
4	4	211	6 5 7 3	
4	106	128	7 1 9 2	
4	14	8	9 2 2 5	
4	22	238	9 2- 2 5	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT c r d s c I 9 1
 for interpretation of this run call P 1 on x 4040

CONFIDENTIAL

MONO
COUNT

TOTAL 300 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	1									
b	17	IC TESTS FOR SIGNIFICANCE								
c	23	MONO IC	1.5577	SIGMAGE	23.6	300		2687	1725	
d	14	DIGRAPHIC TESTS								
e	5	DIGRAPH IC	4.491	SIGMAGE	28.4	299		296	66	
f	19	CUT A IC	8.711	SIGMAGE	31.5	150		144	17	
g	1	CUT B IC	6.192	SIGMAGE	21.1	149		101	16	
h	7	TRIGRAPHIC TESTS								
i	5	TRIGRAPH IC	19.05	SIGMAGE	28.7	298		48	2.52	
j	25	CUT A IC	17.86	SIGMAGE	9.0	100		5	0.28	
k	22	CUT B IC	14.29	SIGMAGE	7.0	99		4	0.28	
l	11	CUT C IC	25.00	SIGMAGE	12.7	99		7	0.28	
m	0	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	4	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	16	1 5 18	-3.1	12	29	17	2.9	23	9	17
p	23	2 21 18	0.8	13	6	17	-2.8	24	19	17
q	6	3 5 18	-3.1	14	25	17	2.0	25	14	17
r	32	4 29 18	2.8	15	5	17	-3.0	26	19	16
s	27	5 12 18	-1.4	16	29	17	3.0	27	9	16
t	9	6 16 18	-0.4	17	9	17	-2.0	28	18	16
u	12	7 12 18	-1.4	18	24	17	1.8	29	12	16
v	2	8 26 18	2.1	19	10	17	-1.7	30	24	16
w	2	9 10 17	-1.8	20	26	17	2.3	31	8	16
x	9	10 18 17	0.1	21	11	17	-1.4	32	26	16
y	8	11 14 17	-0.8	22	19	17	0.6	33	5	16
z	0	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1950	22350	2.268	21.30	27	94	1518	1.610	0.42
3	885	14850	1.549	-0.22	28	117	1460	2.084	4.21
4	956	11100	2.239	14.30	29	89	1405	1.647	0.71
5	539	8850	1.584	0.49	30	121	1350	2.330	5.40
6	656	7350	2.321	12.97	31	83	1305	1.654	0.67
7	389	6279	1.611	.85	32	109	1260	2.249	4.84
8	464	5476	2.203	9.68	33	75	1215	1.605	0.33
9	306	4851	1.640	1.15	34	99	1176	2.189	4.42
10	377	4350	2.253	9.04	35	83	1140	1.893	2.35
11	239	3942	1.576	0.23	36	105	1104	2.473	6.41
12	307	3600	2.217	7.91	37	52	1068	1.266	-2.04
13	175	3312	1.374	-2.21	38	85	1036	2.133	3.45
14	271	3066	2.298	8.14	39	60	1008	1.548	-0.06
15	165	2850	1.505	-0.58	40	92	980	2.441	5.30
16	241	2664	2.352	7.94	41	49	952	1.338	-1.32
17	146	2499	1.519	-0.39	42	92	924	2.589	6.19
18	225	2352	2.487	9.29	43	52	897	1.507	-0.31
19	122	2220	1.429	-1.16	44	78	876	2.315	4.54
20	183	2100	2.266	6.37	45	41	855	1.247	-1.87
21	132	1995	1.720	1.46	46	79	834	2.463	5.43
22	172	1898	2.356	7.18	47	39	813	1.247	-1.87
23	114	1807	1.640	0.74	48	63	792	2.068	3.06
24	140	1728	2.106	4.38	49	35	771	1.180	-2.27
25	93	1650	1.465	-0.74	50	65	750	2.253	4.17
26	127	1584	2.085	4.22	51	39	735	1.380	-0.89

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	16	0.09	166.32	51.4
5	296	5	0.01	1360.05	82.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	87	34	c r r b
4	91	194	d u k p
4	81	56	e o x b
4	81	216	f o x b
6	135	160	h t f o x b
4	127	34	j n l r
7	27	42	j q i r k p k
4	13	32	j t y c
4	101	118	k o k r
4	106	54	t j n l
4	186	70	p j s h

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 2 0 8 8 5 I 9 2
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 312 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	40							
1	20	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	29	MONO IC 1.0294	SIGMAGE	2.1	312		4994	4851
3	24	DIGRAPHIC TESTS						
4	29	DIGRAPH IC 1.375	SIGMAGE	8.3	311		663	482
5	41	CUT A IC 2.217	SIGMAGE	13.5	156		268	121
6	20	CUT B IC 1.399	SIGMAGE	4.4	155		167	119
7	36	TRIGRAPHIC TESTS						
8	36	TRIGRAPH IC 2.13	SIGMAGE	7.8	310		102	47.90
9	37	CUT A IC 2.24	SIGMAGE	2.9	104		12	5.36
		CUT B IC 1.52	SIGMAGE	1.2	103		8	5.25
		CUT C IC 1.71	SIGMAGE	1.6	103		9	5.25

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	24	32	-1.5	12	25	31	-1.1	23	43	30	2.6
2	40	32	1.5	13	29	31	-0.3	24	37	30	1.4
3	28	32	-0.7	14	27	31	-0.7	25	17	30	-2.4
4	33	32	0.2	15	31	31	0.1	26	39	29	1.9
5	17	32	-2.7	16	37	30	1.2	27	23	29	-1.2
6	43	32	2.2	17	32	30	0.3	28	30	29	0.1
7	33	31	0.3	18	36	30	1.1	29	22	29	-1.4
8	42	31	2.0	19	20	30	-2.0	30	35	29	1.2
9	32	31	0.1	20	28	30	-0.4	31	16	29	-2.5
10	28	31	-0.6	21	24	30	-1.2	32	35	29	1.2
11	24	31	-1.3	22	25	30	-0.9	33	27	29	-0.3

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2724	24180	1.127	5.10	27	159	1650	0.964	-0.91
3	1640	16068	1.021	-0.34	28	195	1584	1.231	2.63
4	1333	12012	1.110	3.00	29	134	1525	0.879	-1.95
5	964	9579	1.006	-0.76	30	161	1470	1.095	0.86
6	874	7956	1.099	2.10	31	135	1415	0.954	-0.98
7	751	6798	1.105	2.13	32	148	1368	1.082	0.64
8	640	5928	1.080	1.33	33	139	1323	1.051	0.26
9	516	5253	0.982	-1.13	34	143	1278	1.119	1.08
10	508	4712	1.078	1.13	35	140	1236	1.133	1.25
11	439	4270	1.028	-0.02	36	112	1200	0.933	-1.15
12	421	3900	1.079	1.05	37	125	1164	1.074	0.50
13	389	3588	1.084	1.10	38	127	1128	1.126	1.07
14	411	3322	1.237	3.95	39	120	1092	1.099	0.77
15	322	3090	1.042	0.25	40	106	1064	0.996	-0.36
16	308	2888	1.066	0.67	41	125	1036	1.207	1.96
17	279	2709	1.030	0.02	42	134	1008	1.329	3.30
18	257	2550	1.008	-0.36	43	109	980	1.112	0.83
19	223	2408	0.926	-1.65	44	102	952	1.071	0.42
20	237	2280	1.039	0.16	45	97	927	1.046	0.17
21	257	2163	1.188	2.54	46	92	906	1.015	-0.14
22	242	2058	1.176	2.21	47	83	885	0.938	-0.91
23	209	1963	1.065	0.54	48	91	864	1.053	0.24
24	203	1872	1.084	0.77	49	96	843	1.139	1.10
25	184	1794	1.026	-0.04	50	101	822	1.229	2.00
26	198	1716	1.154	1.75	51	74	801	0.924	-0.95

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	309	40	4.75	8.41	16.2
5	308	23	0.48	48.65	32.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT										
5	29	127	0	7	8	4	7						
4	212	39	2	8	9	7							
4	49	84	3	0	5	0							
5	133	58	3	0	5	0	7						
6	5	114	5	0	5	8	9	5					
8	5	268	5	0	5	8	9	5	6	3			
6	119	154	5	0	5	8	9	5					
9	135	154	5	0	7	1	9	4	3	5	8		
6	103	118	7	2	9	4	4	4					
6	47	142	7	8	3	0	5	0					
4	101	57	8	4	7	2							
4	27	200	9	2	0	7							
4	21	34	9	4	1	5							
4	147	16	9		5	8							
8	147	106	9	7	5	8	0	2	0	2			
4	163	90	9	7	5	8							
4	20	220	9	9	4	1							

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT g h u i p I 10 2

for interpretation of this run call P 1 on x 4040

MONO
COUNT

TOTAL 220 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	6										
b	3	IC TESTS FOR SIGNIFICANCE									
c	0	MONO IC	1.2228	SIGMAGE	6.9	220			1133	926	
d	3	DIGRAPHIC TESTS									
e	9	DIGRAPH IC	2.435	SIGMAGE	8.6	219			86	35	
f	4	CUT A IC	2.481	SIGMAGE	4.4	110			22	9	
g	7	CUT B IC	2.756	SIGMAGE	5.2	109			24	9	
h	7	TRIGRAPHIC TESTS									
i	15	TRIGRAPH IC	17.04	SIGMAGE	18.6	218			23	1.35	
j	10	CUT A IC	13.33	SIGMAGE	4.8	73			2	0.15	
k	13	CUT B IC	20.00	SIGMAGE	7.4	73			3	0.15	
l	3	CUT C IC	33.33	SIGMAGE	12.4	72			5	0.15	
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	14	OFF OBS EXP SIGMAGE OFF									
o	11	1 16 10 1.8 12 13 10							1.1 23 12 9	0.9	
p	15	2 6 10 -1.4 13 11 10							0.4 24 6 9	-1.1	
q	20	3 10 10 -0.1 14 24 10							4.7 25 12 9	1.0	
r	11	4 8 10 -0.7 15 13 10							1.1 26 4 9	-1.7	
s	11	5 15 10 1.6 16 10 10							0.1 27 9 9	0.0	
t	10	6 17 10 2.2 17 15 10							1.8 28 6 9	-1.0	
u	11	7 9 10 -0.3 18 23 9							4.5 29 12 9	1.0	
v	15	8 17 10 2.3 19 14 9							1.5 30 12 9	1.1	
w	5	9 7 10 -0.9 20 9 9							-0.1 31 7 9	-0.6	
x	6	10 9 10 -0.3 21 5 9							-1.5 32 12 9	1.1	
y	3	11 9 10 -0.3 22 18 9							2.9 33 15 9	2.1	
z	3	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	568	11990	1.232	0.20	27	43	788	1.419	1.18
3	382	7957	1.248	0.45	28	33	756	1.135	-0.53
4	267	5940	1.169	-0.81	29	32	728	1.143	-0.40
5	229	4730	1.259	0.50	30	30	700	1.114	-0.55
6	202	3924	1.338	1.50	31	31	672	1.199	-0.12
7	140	3348	1.087	-1.63	32	27	648	1.083	-0.70
8	135	2916	1.204	-0.21	33	37	627	1.534	1.56
9	135	2580	1.360	1.37	34	29	606	1.244	0.11
10	112	2310	1.261	0.38	35	27	585	1.200	-0.12
11	110	2090	1.368	1.31	36	33	564	1.521	1.49
12	93	1908	1.267	0.40	37	21	545	1.002	-1.11
13	74	1752	1.098	-1.00	38	19	530	0.932	-1.46
14	80	1620	1.284	0.49	39	22	515	1.111	-0.56
15	65	1505	1.123	-0.80	40	19	500	0.988	-0.94
16	56	1404	1.037	-1.49	41	19	485	1.019	-0.82
17	69	1314	1.365	0.99	42	18	470	0.996	-0.91
18	82	1236	1.725	3.51	43	15	455	0.857	-1.46
19	51	1166	1.137	-0.60	44	23	440	1.359	0.54
20	50	1100	1.182	-0.29	45	13	430	0.786	-1.75
21	37	1045	0.921	-2.11	46	14	420	0.867	-1.42
22	52	990	1.366	0.86	47	24	410	1.522	1.20
23	42	945	1.156	-0.40	48	18	400	1.170	-0.21
24	39	900	1.127	-0.58	49	11	390	0.733	-1.96
25	42	860	1.270	0.28	50	19	380	1.300	0.31
26	32	824	1.010	-1.28	51	15	370	1.054	-0.68

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	217	10	0.06	194.96	44.0
5	216	7	0.01	3594.19	159.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT
7	170	14	i k v p x v u
5	156	18	x v u k r
7	71	18	z v n p r o q

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b u f w w I 10 3
 for interpretation of this run call P 1 on x 4040

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 299 DITS 0

a	10							HITS		HITS			
b	8	IC TESTS FOR SIGNIFICANCE						TOTAL		OBSERVED		EXPECTED	
c	9	MONO IC 1.1795 SIGMAGE						7.5 299		2021		1713	
d	5	DIGRAPHIC TESTS											
e	6	DIGRAPH IC 1.772 SIGMAGE						6.3 298		116		65	
f	14	CUT A IC 1.533 SIGMAGE						2.2 149		25		16	
g	11	CUT B IC 1.655 SIGMAGE						2.7 149		27		16	
h	24	TRIGRAPHIC TESTS											
i	19	TRIGRAPH IC 2.80 SIGMAGE						2.9 297		7		2.50	
j	13	CUT A IC 7.14 SIGMAGE						3.2 99		2		0.28	
k	16	CUT B IC 3.57 SIGMAGE						1.4 99		1		0.28	
l	9	CUT C IC 0.00 SIGMAGE						-0.5 99		0		0.28	
m	11	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	5	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	6	1	19	13	1.6	12	16	13	0.9	23	12	12	-0.1
p	11	2	10	13	-0.9	13	10	13	-0.8	24	10	12	-0.7
q	18	3	17	13	1.0	14	14	13	0.3	25	14	12	0.5
r	4	4	20	13	1.9	15	17	13	1.2	26	18	12	1.7
s	17	5	10	13	-0.9	16	13	13	0.1	27	18	12	1.7
t	7	6	10	13	-0.9	17	12	13	-0.2	28	18	12	1.7
u	22	7	16	13	0.8	18	18	13	1.5	29	10	12	-0.6
v	5	8	17	13	1.1	19	16	13	1.0	30	15	12	0.9
w	18	9	18	13	1.4	20	17	13	1.3	31	15	12	0.9
x	6	10	10	13	-0.9	21	12	13	-0.1	32	14	12	0.6
y	20	11	16	13	0.9	22	16	12	1.0	33	8	12	-1.2
z	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	978	22201	1.145	-1.05	27	67	1507	1.156	-0.19
3	680	14751	1.199	0.46	28	66	1450	1.183	0.02
4	489	11026	1.153	-0.57	29	64	1395	1.193	0.10
5	393	8791	1.162	-0.34	30	56	1341	1.086	-0.66
6	311	7301	1.108	-1.22	31	63	1296	1.264	0.59
7	267	6237	1.113	-1.07	32	70	1251	1.455	1.93
8	241	5439	1.152	-0.42	33	39	1206	0.841	-2.37
9	226	4818	1.220	0.56	34	50	1168	1.113	-0.47
10	181	4321	1.089	-1.18	35	45	1132	1.034	-1.02
11	159	3915	1.056	-1.61	36	52	1096	1.234	0.38
12	167	3576	1.214	0.41	37	47	1060	1.153	-0.19
13	149	3289	1.178	-0.02	38	36	1029	0.910	-1.62
14	138	3045	1.178	-0.02	39	51	1001	1.325	0.87
15	131	2831	1.203	0.25	40	31	973	0.828	-2.11
16	135	2646	1.327	1.47	41	53	945	1.458	1.67
17	104	2482	1.089	-0.91	42	43	917	1.219	0.23
18	98	2336	1.091	-0.89	43	51	891	1.488	1.85
19	88	2205	1.038	-1.28	44	31	870	0.926	-1.52
20	84	2086	1.047	-1.20	45	41	849	1.256	0.46
21	91	1981	1.194	0.13	46	38	828	1.193	0.08
22	79	1885	1.090	-0.81	47	35	807	1.128	-0.31
23	76	1794	1.101	-0.71	48	44	786	1.455	1.65
24	81	1716	1.227	0.38	49	27	765	0.918	-1.57
25	66	1639	1.047	-1.06	50	32	745	1.117	-0.58
26	71	1573	1.174	-0.05	51	37	730	1.318	0.69

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	296	2	0.09	20.93	6.2
5	295	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	10	250	g	h	m	i
4	123	20	y	k	b	j

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT r d i t j I 10 4
for interpretation of this run call P 1 on x 4040

MONO
COUNT

TOTAL 150 DITS 0

a	5											HITS		HITS	
b	7	IC TESTS FOR SIGNIFICANCE										TOTAL		OBSERVED	EXPECTED
c	3	MONO IC 1.7357 SIGMA										15.6	150	746	429
d	13	DIGRAPHIC TESTS													
e	3	DIGRAPH IC 6.131 SIGMA										20.8	149	100	16
f	5	CUT A IC 4.385 SIGMA										6.9	75	18	4
g	3	CUT B IC 8.259 SIGMA										14.6	74	33	4
h	6	TRIGRAPHIC TESTS													
i	19	TRIGRAPH IC 24.19 SIGMA										18.3	148	15	0.62
j	4	CUT A IC 28.57 SIGMA										7.4	50	2	0.07
k	17	CUT B IC 14.29 SIGMA										3.5	49	1	0.07
l	5	CUT C IC 14.29 SIGMA										3.5	49	1	0.07
m	7	LOCAL ROUGHNESS OFFSETS 1 TO 33													
n	0	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA		
o	2	1	3	10	-2.3	12	7	9	-0.8	23	9	9	0.2		
p	3	2	8	10	-0.6	13	9	9	-0.1	24	10	8	0.6		
q	10	3	8	10	-0.6	14	13	9	1.3	25	16	8	2.7		
r	5	4	9	10	-0.3	15	7	9	-0.7	26	9	8	0.2		
s	1	5	9	10	-0.2	16	9	9	0.0	27	6	8	-0.8		
t	8	6	10	10	0.1	17	9	9	0.0	28	7	8	-0.4		
u	19	7	12	10	0.8	18	8	9	-0.3	29	9	8	0.3		
v	2	8	9	10	-0.2	19	8	9	-0.3	30	8	8	0.0		
w	1	9	8	9	-0.5	20	11	9	0.8	31	11	8	1.1		
x	0	10	12	9	0.9	21	7	9	-0.6	32	8	8	0.0		
y	1	11	6	9	-1.1	22	11	9	0.9	33	5	8	-1.0		
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W													
		W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA				
		2	393	5550	1.841	1.58	27	21	345	1.583	-0.61				
		3	228	3675	1.613	-1.48	28	23	330	1.812	0.30				
		4	186	2738	1.766	0.33	29	29	315	2.394	2.63				
		5	159	2175	1.901	1.49	30	23	300	1.993	0.77				
		6	113	1800	1.632	-0.94	31	21	290	1.883	0.44				
		7	102	1533	1.730	-0.05	32	19	280	1.764	0.08				
		8	93	1332	1.815	0.55	33	10	270	0.963	-2.32				
		9	71	1176	1.570	-1.16	34	15	260	1.500	-0.71				
		10	86	1050	2.130	2.76	35	13	250	1.352	-1.15				
		11	52	949	1.425	-1.87	36	16	240	1.733	-0.01				
		12	52	864	1.565	-1.03	37	20	230	2.261	1.58				
		13	45	792	1.477	-1.55	38	16	222	1.874	0.41				
		14	53	730	1.888	0.76	39	10	216	1.204	-1.60				
		15	48	675	1.849	0.57	40	15	210	1.857	0.36				
		16	41	630	1.692	-0.22	41	14	204	1.784	0.14				
		17	36	588	1.592	-0.72	42	10	198	1.313	-1.27				
		18	39	552	1.837	0.51	43	9	192	1.219	-1.55				
		19	35	518	1.757	0.11	44	13	186	1.817	0.24				
		20	40	490	2.122	1.54	45	12	180	1.733	-0.01				
		21	24	462	1.351	-1.54	46	12	174	1.793	0.17				
		22	28	438	1.662	-0.30	47	18	168	2.786	3.15				
		23	30	417	1.871	0.54	48	7	162	1.123	-1.23				
		24	25	396	1.641	-0.38	49	11	156	1.833	0.19				
		25	48	375	3.328	6.37	50	19	150	3.293	3.11				
		26	23	360	1.661	-0.30	51	8	147	1.415	-0.64				

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	147	4	0.03	170.35	26.0
5	146	2	0.01	2245.58	67.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT
6	35	25	d b b u g 1
4	65	25	i k f b

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
6	117	232	l p z c n i
4	173	176	l p z c
6	35	48	m h g l s t
4	17	184	u s g s
11	162	72	w m o e y s g a v m s
11	110	56	y s g a v m s l p z c
7	110	128	y s g a v m s

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT x m i r y II 1 1 (DELTA)
 for interpretation of this run call PROD 03 on x 3843

CONFIDENTIAL

MONO
COUNT

TOTAL 399 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	10									
b	13	IC TESTS FOR SIGNIFICANCE								
c	13	MONO IC	1.0478	SIGMAGE	2.7	399		3200	3053	
d	26	DIGRAPHIC TESTS								
e	13	DIGRAPH IC	1.395	SIGMAGE	4.3	398		163	117	
f	15	CUT A IC	1.681	SIGMAGE	3.7	199		49	29	
g	20	CUT B IC	1.544	SIGMAGE	2.9	199		45	29	
h	14	TRIGRAPHIC TESTS								
i	16	TRIGRAPH IC	8.50	SIGMAGE	15.9	397		38	4.47	
j	15	CUT A IC	10.10	SIGMAGE	6.5	133		5	0.49	
k	15	CUT B IC	6.12	SIGMAGE	3.6	132		3	0.49	
l	9	CUT C IC	14.29	SIGMAGE	9.4	132		7	0.49	
m	26	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	8	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	11	1 16 16 0.0 12 21 15 1.4 23 14 15 -0.3								
p	11	2 22 16 1.6 13 14 15 -0.4 24 14 15 -0.3								
q	20	3 15 16 -0.2 14 25 15 2.5 25 13 15 -0.5								
r	14	4 14 16 -0.5 15 10 15 -1.4 26 15 15 0.0								
s	15	5 17 16 0.3 16 15 15 -0.1 27 13 15 -0.5								
t	12	6 15 16 -0.2 17 21 15 1.5 28 15 15 0.0								
u	25	7 16 16 0.1 18 18 15 0.7 29 12 15 -0.7								
v	25	8 18 16 0.6 19 16 15 0.2 30 13 15 -0.5								
w	13	9 9 16 -1.7 20 17 15 0.5 31 9 15 -1.5								
x	11	10 11 16 -1.2 21 19 15 1.0 32 15 15 0.1								
y	15	11 19 16 0.9 22 19 15 1.0 33 11 15 -1.0								
z	14	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1621	39601	1.064	0.64	27	92	2751	0.870	-1.96
3	1029	26334	1.016	-1.02	28	109	2646	1.071	0.23
4	821	19701	1.083	0.98	29	112	2548	1.143	0.95
5	636	15721	1.052	0.10	30	110	2457	1.164	1.16
6	535	13068	1.064	0.37	31	108	2370	1.185	1.37
7	454	11172	1.057	0.19	32	88	2292	0.998	-0.50
8	437	9751	1.165	2.34	33	84	2214	0.986	-0.56
9	336	8646	1.010	-0.72	34	63	2145	0.764	-2.56
10	305	7761	1.022	-0.47	35	79	2079	0.988	-0.54
11	289	7038	1.068	0.34	36	85	2013	1.098	0.45
12	260	6435	1.051	0.05	37	81	1955	1.077	0.26
13	232	5925	1.018	-0.45	38	75	1900	1.026	-0.20
14	234	5488	1.109	0.92	39	48	1845	0.676	-3.35
15	211	5109	1.074	0.36	40	80	1791	1.161	1.02
16	197	4776	1.072	0.34	41	62	1746	0.925	-1.00
17	165	4485	0.957	-1.18	42	77	1701	1.177	1.03
18	171	4224	1.053	0.07	43	69	1656	1.083	0.28
19	154	3990	1.004	-0.57	44	75	1611	1.210	1.30
20	155	3781	1.066	0.22	45	70	1572	1.158	0.88
21	142	3591	1.028	-0.24	46	70	1536	1.185	1.10
22	140	3420	1.064	0.19	47	48	1500	0.832	-1.73
23	132	3264	1.051	0.03	48	55	1464	0.977	-0.57
24	138	3120	1.150	1.12	49	51	1428	0.929	-0.95
25	120	2985	1.045	-0.03	50	56	1393	1.045	-0.02
26	117	2865	1.062	0.15	51	50	1365	0.952	-0.67

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	396	22	0.18	128.54	52.8
5	395	16	0.01	2445.36	1010.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	117	232	e k d l v
4	243	39	g j a f
10	162	72	q c q u u o u v r g
10	110	56	u o u v r g t e k d
6	110	128	u o u v r g
5	35	48	v z f h b

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT q d i q r II 1 2
 for interpretation of this run call PROD 03 on x 3843

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 300 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	17										
b	4	IC TESTS FOR SIGNIFICANCE									
c	8	MONO IC	1.2046	SIGMAGE	8.6	300			2078	1725	
d	19	DIGRAPHIC TESTS									
e	21	DIGRAPH IC	2.003	SIGMAGE	8.2	299			132	66	
f	4	CUT A IC	2.783	SIGMAGE	7.3	150			46	17	
g	9	CUT B IC	2.391	SIGMAGE	5.6	149			39	16	
h	5	TRIGRAPHIC TESTS									
i	8	TRIGRAPH IC	10.34	SIGMAGE	14.8	298			26	2.51	
j	15	CUT A IC	21.43	SIGMAGE	10.9	100			6	0.28	
k	16	CUT B IC	32.73	SIGMAGE	16.8	99			9	0.27	
l	5	CUT C IC	29.09	SIGMAGE	14.8	99			8	0.27	
m	6	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	7	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	15	1 18 14 1.2 12 19 13 1.6 23 8 13 -1.4									
p	26	2 11 14 -0.7 13 8 13 -1.5 24 20 13 2.1									
q	17	3 12 14 -0.5 14 12 13 -0.3 25 10 13 -0.8									
r	11	4 10 14 -1.0 15 12 13 -0.3 26 10 13 -0.8									
s	5	5 14 14 0.1 16 7 13 -1.7 27 11 13 -0.5									
t	6	6 15 14 0.4 17 8 13 -1.4 28 14 13 0.4									
u	19	7 11 13 -0.7 18 24 13 3.1 29 12 12 -0.1									
v	11	8 13 13 -0.1 19 14 13 0.3 30 15 12 0.7									
w	8	9 8 13 -1.5 20 13 13 0.0 31 10 12 -0.7									
x	7	10 12 13 -0.4 21 12 13 -0.2 32 9 12 -1.0									
y	10	11 8 13 -1.5 22 5 13 -2.2 33 10 12 -0.7									
z	21	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1181	22350	1.374	5.07	27	85	1518	1.456	2.01
3	868	14850	1.520	7.56	28	76	1460	1.353	1.18
4	581	11100	1.361	3.28	29	56	1405	1.036	-1.35
5	404	8850	1.187	-0.34	30	103	1350	1.984	5.45
6	569	7350	2.013	13.74	31	71	1305	1.415	1.47
7	306	6279	1.267	0.99	32	63	1260	1.300	0.67
8	282	5476	1.339	2.01	33	64	1215	1.370	1.16
9	282	4851	1.511	4.28	34	85	1176	1.879	4.72
10	219	4350	1.309	1.35	35	48	1140	1.095	-0.77
11	165	3942	1.088	-1.52	36	79	1104	1.861	4.59
12	284	3600	2.051	10.15	37	53	1068	1.290	0.60
13	120	3312	0.942	-3.16	38	61	1036	1.531	1.96
14	171	3066	1.450	2.70	39	43	1008	1.109	-0.58
15	162	2850	1.478	3.00	40	48	980	1.273	0.41
16	126	2664	1.230	0.25	41	40	952	1.092	-0.68
17	139	2499	1.446	2.41	42	75	924	2.110	5.43
18	185	2352	2.045	8.40	43	32	897	0.928	-1.66
19	108	2220	1.265	0.54	44	41	876	1.217	0.07
20	105	2100	1.300	0.86	45	41	855	1.247	0.25
21	122	1995	1.590	3.47	46	51	834	1.590	2.31
22	85	1898	1.164	-0.37	47	45	813	1.439	1.40
23	88	1807	1.266	0.55	48	58	792	1.904	4.19
24	137	1728	2.061	6.85	49	32	771	1.079	-0.76
25	70	1650	1.103	-0.82	50	32	750	1.109	-0.58
26	65	1584	1.067	-1.10	51	54	735	1.910	3.53

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	11	0.09	114.35	35.2
5	296	5	0.01	1360.05	420.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	35	258	d p u a
5	71	168	e v i k j
6	44	120	n c p p p j
5	58	96	o a p b z
4	85	168	w y o s
5	62	186	z y m e q

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT n f i b i II 1 2 (DELTA)
 for interpretation of this run call PROD 03 on x 3843

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 299 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	10	IC TESTS FOR SIGNIFICANCE									
c	16	MONO IC	1.0166	SIGMAGE	0.7	299			1742	1713	
d	6	DIGRAPHIC TESTS									
e	13	DIGRAPH IC	1.268	SIGMAGE	2.2	298			83	65	
f	13	CUT A IC	1.594	SIGMAGE	2.4	149			26	16	
g	10	CUT B IC	1.594	SIGMAGE	2.4	149			26	16	
h	9	TRIGRAPHIC TESTS									
i	12	TRIGRAPH IC	5.20	SIGMAGE	6.7	297			13	2.50	
j	9	CUT A IC	10.91	SIGMAGE	5.2	99			3	0.27	
k	11	CUT B IC	18.18	SIGMAGE	9.1	99			5	0.27	
l	5	CUT C IC	10.91	SIGMAGE	5.2	99			3	0.27	
m	17	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	12	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF									
o	15	1 10 12 -0.5 12 9 11 -0.7 23 14 11 1.0									
p	16	2 12 12 0.1 13 11 11 0.0 24 5 11 -1.8									
q	15	3 9 12 -0.8 14 8 11 -1.0 25 10 11 -0.2									
r	9	4 7 12 -1.4 15 10 11 -0.3 26 14 11 1.0									
s	9	5 9 11 -0.7 16 9 11 -0.6 27 16 11 1.7									
t	8	6 16 11 1.4 17 12 11 0.3 28 9 11 -0.5									
u	14	7 14 11 0.8 18 9 11 -0.6 29 12 11 0.5									
v	10	8 16 11 1.4 19 9 11 -0.6 30 14 10 1.1									
w	12	9 15 11 1.1 20 9 11 -0.6 31 10 10 -0.1									
x	4	10 6 11 -1.6 21 9 11 -0.6 32 14 10 1.1									
y	16	11 8 11 -1.0 22 12 11 0.4 33 11 10 0.2									
z	10	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	858	22201	1.005	-0.36	27	64	1507	1.104	0.70
3	643	14751	1.133	2.78	28	48	1450	0.861	-1.25
4	447	11026	1.054	0.78	29	55	1395	1.025	0.06
5	336	8791	0.994	-0.44	30	69	1341	1.338	2.25
6	339	7301	1.207	3.23	31	60	1296	1.204	1.31
7	231	6237	0.963	-0.86	32	61	1251	1.268	1.76
8	230	5439	1.099	1.23	33	50	1206	1.078	0.43
9	201	4818	1.085	0.95	34	48	1168	1.068	0.36
10	158	4321	0.951	-0.86	35	37	1132	0.850	-1.17
11	144	3915	0.956	-0.79	36	52	1096	1.234	1.52
12	185	3576	1.345	3.94	37	38	1060	0.932	-0.60
13	124	3289	0.980	-0.44	38	28	1029	0.707	-1.86
14	105	3045	0.897	-1.32	39	40	1001	1.039	0.13
15	132	2831	1.212	2.15	40	38	973	1.015	-0.01
16	114	2646	1.120	1.03	41	42	945	1.156	0.83
17	98	2482	1.027	0.10	42	45	917	1.276	1.55
18	100	2336	1.113	0.96	43	38	891	1.109	0.55
19	75	2205	0.884	-1.20	44	32	870	0.956	-0.37
20	76	2086	0.947	-0.63	45	32	849	0.980	-0.22
21	90	1981	1.181	1.48	46	27	828	0.848	-1.01
22	67	1885	0.924	-0.84	47	37	807	1.192	1.05
23	76	1794	1.101	0.76	48	50	786	1.654	3.82
24	108	1716	1.636	4.95	49	35	765	1.190	1.04
25	72	1639	1.142	1.00	50	32	745	1.117	0.60
26	56	1573	0.926	-0.73	51	31	730	1.104	0.44

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	296	5	0.09	52.33	15.9
5	295	1	0.01	273.95	84.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	58	96	m p m y
5	44	120	p n a a u
4	71	168	r n c z
4	62	186	z o s m

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT n h b r k II 1 7

for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 275 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	11										
b	6	IC TESTS FOR SIGNIFICANCE									
c	9	MONO IC	1.0034	SIGMA	0.1	275			1454	1449	
d	7	DIGRAPHIC TESTS									
e	10	DIGRAPH IC	1.048	SIGMA	0.4	274			58	55	
f	10	CUT A IC	1.016	SIGMA	0.1	137			14	14	
g	10	CUT B IC	0.653	SIGMA	-1.3	137			9	14	
h	13	TRIGRAPHIC TESTS									
i	14	TRIGRAPH IC	0.47	SIGMA	-0.8	273			1	2.11	
j	10	CUT A IC	0.00	SIGMA	-0.5	91			0	0.23	
k	14	CUT B IC	4.35	SIGMA	1.6	91			1	0.23	
l	14	CUT C IC	0.00	SIGMA	-0.5	91			0	0.23	
m	11	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	7	OFF OBS EXP SIGMA OFF OBS EXP SIGMA									
o	12	1 14 11 1.0 12 11 10 0.2 23 16 10 2.0									
p	6	2 10 11 -0.2 13 9 10 -0.4 24 13 10 1.0									
q	5	3 11 11 0.1 14 6 10 -1.3 25 14 10 1.4									
r	16	4 6 11 -1.4 15 16 10 1.9 26 6 10 -1.2									
s	14	5 13 11 0.8 16 4 10 -2.0 27 10 10 0.1									
t	9	6 14 10 1.1 17 12 10 0.6 28 6 10 -1.2									
u	14	7 9 10 -0.5 18 9 10 -0.3 29 9 10 -0.2									
v	12	8 12 10 0.5 19 9 10 -0.3 30 8 10 -0.5									
w	15	9 6 10 -1.4 20 11 10 0.3 31 6 10 -1.2									
x	9	10 10 10 -0.1 21 13 10 1.0 32 11 9 0.5									
y	4	11 7 10 -1.0 22 6 10 -1.3 33 11 9 0.5									
z	13	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	705	18769	0.977	-0.70	27	54	1265	1.110	0.75
3	496	12467	1.034	0.68	28	46	1215	0.984	-0.13
4	353	9316	0.985	-0.34	29	36	1170	0.800	-1.42
5	292	7425	1.022	0.32	30	41	1125	0.948	-0.39
6	248	6165	1.046	0.69	31	29	1084	0.696	-2.15
7	207	5265	1.022	0.29	32	41	1048	1.017	0.10
8	181	4590	1.025	0.31	33	49	1012	1.259	1.54
9	156	4065	0.998	-0.07	34	36	976	0.959	-0.26
10	144	3645	1.027	0.29	35	34	945	0.935	-0.41
11	138	3300	1.087	1.01	36	37	917	1.049	0.28
12	123	3014	1.061	0.64	37	30	889	0.877	-0.76
13	102	2772	0.957	-0.51	38	29	861	0.876	-0.76
14	94	2565	0.953	-0.50	39	32	833	0.999	-0.02
15	94	2385	1.025	0.22	40	35	810	1.123	0.72
16	78	2227	0.911	-0.83	41	31	789	1.022	0.11
17	77	2088	0.959	-0.40	42	29	768	0.982	-0.13
18	77	1965	1.019	0.14	43	32	747	1.114	0.67
19	60	1855	0.841	-1.46	44	30	726	1.074	0.36
20	72	1755	1.067	0.51	45	26	705	0.959	-0.22
21	67	1664	1.047	0.55	46	33	685	1.253	1.25
22	58	1584	0.952	-0.41	47	19	670	0.737	-1.33
23	67	1507	1.156	1.22	48	20	655	0.794	-1.05
24	56	1441	1.010	0.06	49	37	640	1.503	2.50
25	60	1375	1.135	0.92	50	26	625	1.082	0.40
26	42	1320	0.827	-1.23	51	16	610	0.682	-1.61

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	272	0	0.09	0.00	-0.3
5	271	0	0.01	0.00	-0.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT y r h x r II 2 3
 for interpretation of this run call PROD 03 on x 3843

CONFIDENTIAL

MONO
COUNT

TOTAL 310 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	12									
b	4	IC TESTS FOR SIGNIFICANCE								
c	11	MONO IC 1.1237 SIGMAGE	5.4	310				2070	1842	
d	8	DIGRAPHIC TESTS								
e	12	DIGRAPH IC 2.145 SIGMAGE	9.6	309				151	70	
f	16	CUT A IC 2.209 SIGMAGE	5.1	155				39	18	
g	18	CUT B IC 2.467 SIGMAGE	6.1	154				43	17	
h	5	TRIGRAPHIC TESTS								
i	4	TRIGRAPH IC 9.31 SIGMAGE	13.7	308				25	2.68	
j	18	CUT A IC 0.00 SIGMAGE	-0.5	103				0	0.29	
k	16	CUT B IC 3.39 SIGMAGE	1.3	103				1	0.29	
l	17	CUT C IC 6.90 SIGMAGE	3.2	102				2	0.29	
m	6	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	5	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	12	1 13 13 -0.1 12 11 13 -0.5 23 8 12 -1.3								
p	12	2 13 13 -0.1 13 12 13 -0.2 24 10 12 -0.7								
q	9	3 21 13 2.2 14 16 13 0.9 25 13 12 0.2								
r	17	4 6 13 -2.0 15 14 13 0.4 26 9 12 -0.9								
s	13	5 5 13 -2.3 16 10 13 -0.8 27 12 12 0.0								
t	20	6 8 13 -1.4 17 13 13 0.1 28 19 12 2.0								
u	10	7 24 13 3.1 18 13 13 0.1 29 5 12 -2.1								
v	3	8 8 13 -1.4 19 11 13 -0.4 30 6 12 -1.8								
w	8	9 12 13 -0.3 20 9 12 -1.0 31 12 12 0.0								
x	23	10 17 13 1.2 21 21 12 2.5 32 18 12 1.8								
y	16	11 10 13 -0.8 22 8 12 -1.3 33 11 12 -0.3								
z	15	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1031	23870	1.123	-0.03	27	61	1628	0.974	-1.20
3	688	15862	1.128	0.10	28	101	1562	1.681	4.46
4	503	11858	1.103	-0.46	29	54	1505	0.933	-1.53
5	395	9455	1.086	-0.72	30	71	1450	1.273	1.19
6	344	7854	1.139	0.27	31	57	1395	1.062	-0.50
7	446	6710	1.728	9.66	32	59	1350	1.136	0.08
8	241	5852	1.071	-0.80	33	58	1305	1.156	0.22
9	228	5185	1.143	0.27	34	45	1260	0.929	-1.37
10	203	4650	1.135	0.15	35	72	1220	1.534	2.87
11	184	4214	1.135	0.14	36	48	1184	1.054	-0.49
12	162	3850	1.094	-0.36	37	46	1148	1.042	-0.57
13	148	3542	1.086	-0.46	38	49	1112	1.146	0.15
14	217	3278	1.721	6.57	39	37	1078	0.892	-1.62
15	128	3050	1.091	-0.36	40	43	1050	1.065	-0.41
16	123	2850	1.122	-0.02	41	41	1022	1.043	-0.49
17	98	2673	0.953	-1.71	42	75	994	1.962	5.03
18	114	2516	1.178	0.54	43	39	966	1.050	-0.44
19	97	2376	1.061	-0.63	44	39	938	1.081	-0.26
20	95	2250	1.098	-0.26	45	41	915	1.165	0.25
21	149	2135	1.815	6.22	46	44	894	1.280	0.94
22	89	2030	1.140	0.14	47	36	873	1.072	-0.31
23	89	1937	1.195	0.64	48	33	852	1.007	-0.70
24	66	1848	0.929	-1.76	49	57	831	1.783	3.95
25	77	1770	1.131	0.06	50	38	810	1.220	0.58
26	74	1694	1.136	0.10	51	20	789	0.659	-2.79

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	307	9	0.11	87.56	27.8
5	306	1	0.01	254.58	81.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	130	25	g l l z
5	150	46	p g e g e
4	64	38	s r u e
4	26	154	t n k y
4	88	179	t q o z
4	1	94	y r h x
4	172	88	y t x u
4	14	126	z k m w

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b p l o t II 2 6a
 for interpretation of this run call PROD 03 on x 3843

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 90 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	1										
b	3	IC TESTS FOR SIGNIFICANCE									
c	4	MONO IC 1.1101	SIGMAGE	1.4	90				171	154	
d	1	DIGRAPHIC TESTS									
e	3	DIGRAPH IC	2.072	SIGMAGE	2.6	89			12	6	
f	5	CUT A IC	3.414	SIGMAGE	3.0	45			5	1	
g	4	CUT B IC	0.715	SIGMAGE	-0.3	44			1	1	
h	7	TRIGRAPHIC TESTS									
i	1	TRIGRAPH IC	0.00	SIGMAGE	-0.5	88			0	0.21	
j	3	CUT A IC	0.00	SIGMAGE	-0.2	30			0	0.02	
k	3	CUT B IC	0.00	SIGMAGE	-0.2	29			0	0.02	
l	3	CUT C IC	0.00	SIGMAGE	-0.2	29			0	0.02	
m	10	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	7	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	4	1 5 4 0.6 12 3 3 -0.2 23 3 3 0.1									
p	4	2 5 4 0.6 13 1 3 -1.3 24 4 3 0.7									
q	2	3 4 4 0.1 14 3 3 -0.2 25 2 3 -0.5									
r	6	4 3 4 -0.4 15 5 3 1.0 26 3 3 0.2									
s	3	5 2 4 -0.9 16 3 3 -0.1 27 3 3 0.2									
t	4	6 4 4 0.2 17 10 3 4.0 28 2 3 -0.4									
u	1	7 3 4 -0.3 18 1 3 -1.2 29 2 3 -0.4									
v	4	8 3 4 -0.3 19 1 3 -1.2 30 3 3 0.3									
w	3	9 7 3 1.9 20 4 3 0.6 31 2 3 -0.3									
x	2	10 2 3 -0.8 21 4 3 0.6 32 4 2 1.0									
y	1	11 4 3 0.3 22 1 3 -1.2 33 3 2 0.4									
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	79	1980	1.037	-0.66	27	3	108	0.722	-0.78
3	62	1305	1.235	0.88	28	4	102	1.020	-0.18
4	39	968	1.048	-0.37	29	3	96	0.813	-0.59
5	32	765	1.088	-0.13	30	3	90	0.867	-0.49
6	27	630	1.114	0.02	31	2	87	0.598	-1.02
7	24	534	1.169	0.30	32	4	84	1.238	0.26
8	19	462	1.069	-0.16	33	4	81	1.284	0.35
9	16	405	1.027	-0.33	34	3	78	1.000	-0.22
10	13	360	0.939	-0.68	35	3	75	1.040	-0.14
11	15	324	1.204	0.38	36	1	72	0.361	-1.50
12	11	294	0.973	-0.41	37	3	69	1.130	0.04
13	10	267	0.974	-0.41	38	2	66	0.788	-0.64
14	12	246	1.268	0.47	39	4	63	1.651	1.08
15	12	225	1.387	0.83	40	2	60	0.867	-0.24
16	10	210	1.238	0.38	41	3	57	1.368	0.26
17	15	195	2.000	2.67	42	6	54	2.889	1.78
18	2	180	0.289	-2.46	43	2	51	1.020	-0.09
19	5	170	0.765	-1.04	44	4	48	2.167	1.06
20	6	160	0.975	-0.27	45	4	45	2.311	1.20
21	10	150	1.733	1.25	46	2	44	1.182	0.07
22	6	140	1.114	0.01	47	3	43	1.814	0.70
23	5	132	0.985	-0.25	48	2	42	1.238	0.13
24	6	126	1.238	0.26	49	1	41	0.634	-0.48
25	4	120	0.867	-0.49	50	2	40	1.300	0.19
26	6	114	1.368	0.52	51	1	39	0.667	-0.44

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	87	0	0.00	0.00	-0.1
5	86	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELHU TREAM FOR THE
ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT v c z u u II 2 6b

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for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 80 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	2	IC TESTS FOR SIGNIFICANCE											
b	7	TOTAL 80											
c	3	MONO IC	1.1765	SIGMAGE	2.0	80			143	121			
d	6	DIGRAPHIC TESTS											
e	1	DIGRAPH IC	2.852	SIGMAGE	4.0	79			13	5			
f	1	CUT A IC	3.467	SIGMAGE	2.7	40			4	1			
g	6	CUT B IC	1.825	SIGMAGE	0.9	39			2	1			
h	5	TRIGRAPHIC TESTS											
i	2	TRIGRAPH IC	0.00	SIGMAGE	-0.4	78			0	0.17			
j	8	CUT A IC	0.00	SIGMAGE	-0.1	26			0	0.01			
k	1	CUT B IC	0.00	SIGMAGE	-0.1	26			0	0.01			
l	0	CUT C IC	0.00	SIGMAGE	-0.1	26			0	0.01			
m	1	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	2	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	2	1	4	4	0.2	12	2	3	-0.6	23	2	3	-0.4
p	4	2	3	4	-0.3	13	3	3	0.0	24	3	3	0.3
q	2	3	5	3	0.8	14	1	3	-1.2	25	5	2	1.6
r	2	4	3	3	-0.2	15	2	3	-0.6	26	1	2	-0.9
s	6	5	4	3	0.3	16	3	3	0.1	27	4	2	1.1
t	3	6	3	3	-0.2	17	6	3	1.9	28	1	2	-0.9
u	2	7	2	3	-0.7	18	3	3	0.1	29	3	2	0.5
v	2	8	2	3	-0.7	19	3	3	0.2	30	2	2	-0.2
w	1	9	4	3	0.5	20	4	3	0.8	31	0	2	-1.5
x	3	10	2	3	-0.7	21	3	3	0.2	32	1	2	-0.8
y	2	11	4	3	0.5	22	1	3	-1.0	33	3	2	0.6
z	6	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											
		W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE		
		2	65	1560	1.083	-0.75	27	6	79	1.975	1.60		
		3	55	1027	1.392	1.29	28	3	76	1.026	-0.30		
		4	33	760	1.129	-0.29	29	3	73	1.068	-0.22		
		5	29	600	1.257	0.40	30	2	70	0.743	-0.87		
		6	23	494	1.211	0.14	31	1	67	0.388	-1.58		
		7	16	418	0.995	-0.73	32	2	64	0.813	-0.73		
		8	16	360	1.156	-0.08	33	6	61	2.557	1.38		
		9	19	316	1.563	1.54	34	2	58	0.897	-0.28		
		10	13	280	1.207	0.09	35	1	55	0.473	-0.70		
		11	17	252	1.754	1.73	36	1	52	0.500	-0.68		
		12	8	228	0.912	-0.80	37	1	49	0.531	-0.65		
		13	9	207	1.130	-0.14	38	1	46	0.565	-0.61		
		14	6	190	0.821	-1.07	39	3	43	1.814	0.64		
		15	5	175	0.743	-1.30	40	2	40	1.300	0.12		
		16	7	160	1.138	-0.08	41	2	39	1.333	0.16		
		17	9	150	1.560	0.77	42	2	38	1.368	0.19		
		18	6	140	1.114	-0.13	43	1	37	0.703	-0.47		
		19	6	130	1.200	0.05	44	4	36	2.889	1.71		
		20	6	120	1.300	0.25	45	1	35	0.743	-0.43		
		21	9	114	2.053	1.75	46	3	34	2.294	1.12		
		22	8	108	1.926	1.50	47	1	33	0.788	-0.39		
		23	5	102	1.275	0.20	48	2	32	1.625	0.45		
		24	5	96	1.354	0.35	49	0	31	0.000	-1.18		
		25	8	90	2.311	2.27	50	3	30	2.600	1.42		
		26	2	84	0.619	-1.12	51	1	29	0.897	-0.28		

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	77	0	0.00	0.00	-0.1
5	76	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 2 3 g 4 7 II 4 4
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 285 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	15										
b	10	IC TESTS FOR SIGNIFICANCE									
c	14	MONO IC	1.2613	SIGMAGE	8.9	285			1418	1124	
d	7	DIGRAPHIC TESTS									
e	6	DIGRAPH IC	3.386	SIGMAGE	13.3	284			105	31	
f	12	CUT A IC	5.308	SIGMAGE	12.0	142			41	8	
g	10	CUT B IC	6.085	SIGMAGE	14.2	142			47	8	
h	7	TRIGRAPHIC TESTS									
i	4	TRIGRAPH IC	42.11	SIGMAGE	38.1	283			36	0.85	
j	7	CUT A IC	136.84	SIGMAGE	42.2	95			13	0.09	
k	3	CUT B IC	122.22	SIGMAGE	37.3	94			11	0.09	
l	1	CUT C IC	122.22	SIGMAGE	37.3	94			11	0.09	
m	6	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	1	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	2	1 11 10 0.3 12 25 10 5.1 23 11 9 0.6									
p	2	2 5 10 -1.6 13 11 10 0.5 24 25 9 5.3									
q	5	3 11 10 0.4 14 5 9 -1.5 25 14 9 1.7									
r	7	4 6 10 -1.2 15 2 9 -2.5 26 5 9 -1.4									
s	6	5 14 10 1.4 16 5 9 -1.5 27 5 9 -1.4									
t	4	6 14 10 1.4 17 10 9 0.2 28 10 9 0.3									
u	7	7 12 10 0.7 18 13 9 1.2 29 10 9 0.4									
v	7	8 5 10 -1.5 19 7 9 -0.8 30 18 9 3.1									
w	8	9 5 10 -1.5 20 8 9 -0.4 31 4 9 -1.7									
x	6	10 12 10 0.8 21 8 9 -0.4 32 9 9 0.0									
y	23	11 8 10 -0.5 22 5 9 -1.4 33 7 9 -0.6									
z	12	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
0	6	W HITS COMPS AVG IC SIGMAGE W HITS COMPS AVG IC SIGMAGE									
1	6	2 800 20164 1.428 4.01 27 70 1365 1.846 3.51									
2	13	3 660 13395 1.774 10.26 28 54 1310 1.484 1.54									
3	4	4 391 10011 1.406 2.47 29 30 1260 0.857 -2.42									
4	15	5 284 7980 1.281 0.30 30 89 1215 2.637 8.26									
5	3	6 485 6627 2.635 19.24 31 28 1170 0.862 -2.39									
6	17	7 193 5660 1.228 -0.43 32 42 1128 1.340 0.47									
7	15	8 186 4935 1.357 1.15 33 48 1092 1.582 1.93									
8	8	9 204 4371 1.680 4.61 34 45 1056 1.534 1.64									
9	6	10 159 3920 1.460 2.19 35 29 1020 1.024 -1.19									
		11 111 3550 1.126 -1.35 36 64 987 2.334 5.37									
		12 232 3243 2.575 13.14 37 31 959 1.164 -0.49									
		13 93 2982 1.123 -1.24 38 37 931 1.431 0.85									
		14 111 2760 1.448 1.68 39 44 903 1.754 2.47									
		15 121 2565 1.698 3.93 40 29 875 1.193 -0.34									
		16 80 2397 1.202 -0.47 41 35 849 1.484 1.12									
		17 78 2248 1.249 -0.10 42 61 828 2.652 6.96									
		18 147 2115 2.502 9.93 43 19 807 0.848 -2.07									
		19 74 1995 1.335 0.59 44 20 786 0.916 -1.73									
		20 72 1890 1.371 0.77 45 36 765 1.694 2.17									
		21 87 1794 1.746 3.40 46 30 744 1.452 0.96									
		22 54 1704 1.141 -0.84 47 18 723 0.896 -1.83									
		23 55 1626 1.218 -0.30 48 46 705 2.349 4.35									
		24 112 1551 2.600 9.37 49 21 690 1.096 -0.66									
		25 49 1485 1.188 -0.51 50 22 675 1.173 -0.35									
		26 46 1420 1.166 -0.57 51 40 660 2.182 3.68									

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	282	26	0.03	1101.78	169.4
5	281	18	0.01	27993.60	1933.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT									
5	60	60	a	b	6	p	c					
7	15	114	f	8	c	y	r	f	6			
7	15	168	f	8	c	y	r	f	6			
11	129	54	f	8	c	y	r	f	6	e	5 k 2	
6	50	60	y	z	u	y	g	w				
4	103	102	2	0	g-	t						
6	4	24	4	7	7	e	1	z				
4	84	84	7	w	v	d						

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	49	30	b d z u
9	1	1	h h h h h h h h h h
8	1	2	h h h h h h h h h
7	1	3	h h h h h h h h
6	1	4	h h h h h h h-
5	1	5	h h h h h
4	1	6	h h h h
8	1	30	h h h h h h h h
7	1	31	h h h h h h h
6	1	32	h h h h h h
5	1	33	h h h h h
4	1	34	h h h h
8	1	120	h h h h h h h
7	1	121	h h h h h h
6	1	122	h h h h h
5	1	123	h h h h h
4	1	124	h h h h
5	1	259	h h h h h
4	1	260	h h h h
4	1	274	h h h h
8	2	29	h h h h h h h
8	2	119	h h h h h h
5	2	258	h h h h h
4	2	273	h h h h
8	3	28	h h h h h h h
8	3	118	h h h h h h
5	3	257	h h h h h
4	3	272	h h h h
7	4	27	h h h h h h
7	4	117	h h h h h
5	4	256	h h h h h
4	4	271	h h h h
6	5	26	h h h h h
6	5	116	h h h h h
5	5	255	h h h h h
4	5	270	h h h h
5	6	25	h h h h h
5	6	115	h h h h h
5	6	254	h h h h
4	6	269	h h h h
4	7	24	h h h h
4	7	114	h h h h
4	7	253	h h h h
4	7	268	h h h h
7	31	1	h h h h h h h
6	31	2	h h h h h h
5	31	3	h h h h h
4	31	4	h h h h
8	31	90	h h h h h h h
7	31	91	h h h h h h

MORE

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THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT e g q y 1 II 4 7
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 450 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED		
a	21	IC TESTS FOR SIGNIFICANCE							
b	9	MONO IC	1.0719	SIGMA	4.5 450	4165	3885		
c	20	DIGRAPHIC TESTS							
d	16	DIGRAPH IC	1.647	SIGMA	7.9 449	245	149		
e	10	CUT A IC	1.744	SIGMA	4.6 225	65	37		
f	5	CUT B IC	1.895	SIGMA	5.5 224	70	37		
g	24	TRIGRAPHIC TESTS							
h	22	TRIGRAPH IC	5.79	SIGMA	11.4 448	33	5.69		
i	27	CUT A IC	6.30	SIGMA	4.2 150	4	0.63		
j	18	CUT B IC	4.80	SIGMA	3.0 149	3	0.62		
k	23	CUT C IC	4.80	SIGMA	3.0 149	3	0.62		
l	23	LOCAL ROUGHNESS OFFSETS 1 TO 33							
m	23	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA
n	28	1	21	18	0.6	12	13	18	-1.2
o	18	2	16	18	-0.6	13	15	18	-0.7
p	17	3	23	18	1.1	14	10	18	-1.9
q	14	4	13	18	-1.3	15	24	18	1.5
r	17	5	22	18	0.9	16	15	18	-0.7
s	12	6	11	18	-1.7	17	20	18	0.5
t	25	7	14	18	-1.0	18	14	18	-0.9
u	14	8	13	18	-1.2	19	10	18	-1.9
v	19	9	16	18	-0.5	20	28	18	2.5
w	14	10	37	18	4.6	21	19	18	0.3
x	9	11	12	18	-1.4	22	7	18	-2.6
y	6								
z	16								

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	2072	50400	1.069	-0.14	27	154	3528	1.135	0.76
3	1370	33525	1.062	-0.37	28	141	3392	1.081	0.11
4	993	25088	1.029	-1.38	29	129	3270	1.026	-0.51
5	1382	20025	1.794	20.22	30	233	3150	1.923	9.36
6	662	16650	1.034	-0.99	31	120	3045	1.025	-0.52
7	592	14240	1.081	0.22	32	117	2940	1.035	-0.41
8	498	12432	1.042	-0.66	33	109	2847	0.995	-0.85
9	430	11025	1.014	-1.22	34	99	2756	0.934	-1.52
10	754	9900	1.980	18.16	35	188	260	1.831	7.59
11	339	8980	0.982	-1.71	36	86	2592	0.863	-2.09
12	294	8214	0.931	-2.54	37	98	2514	1.014	-0.58
13	307	7565	1.055	-0.29	38	105	2442	1.118	0.46
14	298	7008	1.106	0.58	39	103	2376	1.127	0.55
15	448	6525	1.785	11.41	40	163	2310	1.835	7.63
16	252	6104	1.073	0.02	41	87	2245	1.008	-0.64
17	224	5733	1.016	-0.84	42	95	2190	1.128	0.50
18	196	5400	0.944	-1.92	43	92	2135	1.120	0.43
19	203	5106	1.034	-0.53	44	66	2080	0.825	-2.22
20	341	4840	1.832	10.64	45	137	2025	1.759	6.18
21	201	4599	1.136	0.90	46	73	1980	0.959	-1.02
22	157	4380	0.932	-1.82	47	72	1935	0.967	-0.95
23	142	4180	0.883	-2.46	48	77	1890	1.059	-0.12
24	149	3996	0.969	-1.34	49	64	1845	0.902	-1.53
25	261	3825	1.774	8.42	50	131	1800	1.892	7.38
26	141	3672	0.998	-0.89	51	56	1764	0.825	-1.98

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	447	7	0.21	32.09	14.5
5	446	4	0.01	478.51	84.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
6	288	90	c t g k a z
6	8	130	c t j h r l
4	185	250	j i t n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT a r z k k II 5 1

for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 137 DITS 0

a	7	IC TESTS FOR SIGNIFICANCE						TOTAL		HITS OBSERVED		HITS EXPECTED	
b	5	MONO IC 1.0828 SIGMA						1.6	137	388		358	
c	1	DIGRAPHIC TESTS											
d	6	DIGRAPH IC		1.988	SIGMA		3.7	136	27		14		
e	6	CUT A IC		2.077	SIGMA		2.0	68	7		3		
f	2	CUT B IC		2.671	SIGMA		3.1	68	9		3		
g	0	TRIGRAPHIC TESTS											
h	2	TRIGRAPH IC		9.80	SIGMA		6.3	135	5		0.51		
i	6	CUT A IC		36.36	SIGMA		8.5	45	2		0.05		
j	10	CUT B IC		36.36	SIGMA		8.5	45	2		0.05		
k	11	CUT C IC		18.18	SIGMA		4.1	45	1		0.05		
l	7	LOCAL ROUGHNESS OFFSETS 1 TO 33											
m	5	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA
n	5	1	5	6	-0.3	12	12	5	3.0	23	9	5	2.0
o	8	2	6	6	0.1	13	3	5	-1.0	24	4	5	-0.3
p	8	3	3	6	-1.1	14	4	5	-0.5	25	4	5	-0.3
q	5	4	4	6	-0.7	15	2	5	-1.4	26	4	5	-0.3
r	10	5	7	6	0.6	16	5	5	0.0	27	3	5	-0.8
s	3	6	8	6	1.1	17	5	5	0.0	28	3	5	-0.8
t	5	7	5	5	-0.2	18	4	5	-0.5	29	4	5	-0.3
u	2	8	1	5	-1.9	19	10	5	2.3	30	7	4	1.2
v	6	9	7	5	0.7	20	6	5	0.5	31	9	4	2.2
w	5	10	4	5	-0.6	21	7	5	1.0	32	6	4	0.8
x	4	11	6	5	0.3	22	3	5	-0.9	33	3	4	-0.7
y	3	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											
z	5	W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA		
		2	211	4624	1.186	1.44	27	18	280	1.671	1.76		
		3	152	3060	1.292	2.30	28	9	268	0.873	-0.63		
		4	106	2278	1.210	1.27	29	7	258	0.705	-1.13		
		5	80	1809	1.150	0.60	30	16	248	1.677	1.78		
		6	97	1496	1.686	4.82	31	16	238	1.748	2.00		
		7	46	1273	0.940	-1.00	32	13	228	1.482	1.20		
		8	44	1105	1.035	-0.34	33	8	218	0.954	-0.39		
		9	52	975	1.387	1.82	34	7	208	0.875	-0.62		
		10	49	871	1.463	2.28	35	5	201	0.647	-1.31		
		11	25	786	0.827	-1.54	36	13	195	1.733	1.95		
		12	43	715	1.564	2.41	37	4	189	0.550	-1.60		
		13	27	655	1.072	-0.06	38	6	183	0.852	-0.69		
		14	22	603	0.949	-0.67	39	7	177	1.028	-0.17		
		15	23	558	1.072	-0.06	40	12	171	1.825	2.23		
		16	26	520	1.300	1.09	41	5	165	0.788	-0.89		
		17	20	484	1.074	-0.04	42	11	159	1.799	1.43		
		18	33	455	1.886	3.21	43	1	153	0.170	-1.83		
		19	21	427	1.279	0.78	44	3	147	0.531	-1.10		
		20	22	402	1.423	1.36	45	8	141	1.475	0.78		
		21	21	381	1.433	1.40	46	6	136	1.147	0.13		
		22	10	360	0.722	-1.44	47	7	133	1.368	0.57		
		23	17	340	1.300	0.87	48	6	130	1.200	0.23		
		24	13	325	1.040	-0.17	49	3	127	0.614	-0.94		
		25	17	310	1.426	1.03	50	10	124	2.097	2.03		
		26	18	295	1.586	1.51	51	6	121	1.289	0.41		

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	134	3	0.01	153.85	21.4
5	133	1	0.01	1533.23	71.0

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STETHOSCOPE PROGRAM PAGE 2
LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	54	36	u l j m a
4	25	54	v p k r

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT r n x d b II 5 7

for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 200 DITS 0

											HITS OBSERVED	HITS EXPECTED
a	5											
b	9	IC TESTS FOR SIGNIFICANCE										
c	12	MONO IC 1.0204 SIGMAGE	0.5	200						781	765	
d	7	DIGRAPHIC TESTS										
e	5	DIGRAPH IC 1.029 SIGMAGE	0.2	199						30	29	
f	7	CUT A IC 1.093 SIGMAGE	0.3	100						8	7	
g	2	CUT B IC 0.557 SIGMAGE	-1.2	99						4	7	
h	12	TRIGRAPHIC TESTS										
i	6	TRIGRAPH IC 5.43 SIGMAGE	4.7	198						6	1.10	
j	5	CUT A IC 16.67 SIGMAGE	5.5	66						2	0.12	
k	7	CUT B IC 16.67 SIGMAGE	5.5	66						2	0.12	
l	8	CUT C IC 16.67 SIGMAGE	5.5	66						2	0.12	
m	12	LOCAL ROUGHNESS OFFSETS 1 TO 33										
n	9	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE										
o	10	1 9 8 0.5 12 3 7 -1.6 23								4	7	
p	9	2 7 8 -0.3 13 11 7 1.4 24								5	7	
q	1	3 4 8 -1.4 14 4 7 -1.2 25								14	7	
r	9	4 4 8 -1.3 15 15 7 3.0 26								5	7	
s	7	5 17 8 3.5 16 4 7 -1.2 27								5	7	
t	7	6 4 8 -1.3 17 9 7 0.7 28								5	7	
u	10	7 6 8 -0.6 18 10 7 1.1 29								8	7	
v	11	8 6 7 -0.6 19 8 7 0.4 30								16	7	
w	9	9 3 7 -1.7 20 9 7 0.8 31								9	7	
x	11	10 6 7 -0.5 21 6 7 -0.4 32								6	7	
y	3	11 6 7 -0.5 22 6 7 -0.4 33								4	7	
z	7											

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	374	9900	0.982	-0.76	27	24	644	0.969	-0.26
3	232	6567	0.919	-1.62	28	25	616	1.055	0.18
4	192	4900	1.019	-0.01	29	24	591	1.056	0.18
5	244	3900	1.627	7.89	30	45	570	2.053	5.17
6	123	3234	0.989	-0.34	31	18	549	0.852	-0.84
7	105	2758	0.990	-0.33	32	21	528	1.034	0.07
8	95	2400	1.029	0.09	33	12	507	0.615	-1.62
9	77	2123	0.943	-0.69	34	17	490	0.902	-0.47
10	115	1900	1.574	4.99	35	24	475	1.314	1.18
11	63	1719	0.953	-0.54	36	18	460	1.017	-0.01
12	58	1568	0.962	-0.46	37	16	445	0.935	-0.34
13	55	1440	0.993	-0.22	38	16	430	0.967	-0.21
14	48	1330	0.938	-0.57	39	18	415	1.128	0.43
15	86	1235	1.811	5.54	40	32	400	2.080	4.24
16	40	1152	0.903	-0.82	41	9	390	0.600	-1.68
17	36	1078	0.868	-1.06	42	13	380	0.889	-0.52
18	41	1012	1.053	0.20	43	19	370	1.335	1.26
19	38	955	1.035	0.09	44	9	360	0.650	-1.48
20	55	900	1.589	3.41	45	20	350	1.486	1.86
21	29	855	0.882	-0.83	46	12	340	0.918	-0.41
22	26	810	0.835	-1.11	47	13	330	1.024	0.02
23	23	772	0.775	-1.47	48	7	320	0.569	-1.80
24	26	736	0.918	-0.51	49	11	310	0.923	-0.29
25	45	700	1.671	3.26	50	16	300	1.387	1.10
26	19	672	0.735	-1.43	51	4	294	0.354	-2.00

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	197		4	0.05	94.66
5	196		2	0.01	1243.47

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	45	15	o e j h d
5	147	15	v m g u x

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 1 h t d h II 5 8

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 375 DITS 0

							HITS OBSERVED	HITS EXPECTED
a	4							
b	16	IC TESTS FOR SIGNIFICANCE						
c	22	MONO IC 1.2521 SIGMAGE	13.3	375		3377	2697	
d	26	DIGRAPHIC TESTS						
e	3	DIGRAPH IC 2.161 SIGMAGE	11.8	374		223	103	
f	22	CUT A IC 1.322 SIGMAGE	1.6	187		34	26	
g	26	CUT B IC 2.799 SIGMAGE	9.2	187		72	26	
h	38	TRIGRAPHIC TESTS						
i	5	TRIGRAPH IC 6.84 SIGMAGE	11.6	373		27	3.95	
j	13	CUT A IC 13.64 SIGMAGE	8.4	125		6	0.44	
k	15	CUT B IC 16.28 SIGMAGE	10.1	124		7	0.43	
l	12	CUT C IC 18.60 SIGMAGE	11.6	124		8	0.43	

m	16	LOCAL ROUGHNESS OFFSETS 1 TO 33										
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE										
o	8	1 15 18 -0.7 12 15 17 -0.6 23 18 17 0.3										
p	10	2 15 18 -0.7 13 24 17 1.6 24 15 17 -0.5										
q	16	3 20 18 0.5 14 22 17 1.1 25 15 17 -0.5										
r	16	4 13 18 -1.2 15 30 17 3.1 26 16 17 -0.2										
s	15	5 17 18 -0.2 16 17 17 -0.1 27 16 17 -0.2										
t	5	6 15 18 -0.7 17 17 17 0.0 28 18 17 0.3										
u	11	7 12 18 -1.4 18 15 17 -0.5 29 17 17 0.1										
v	22	8 23 18 1.3 19 23 17 1.5 30 26 17 2.4										
w	20	9 17 18 -0.1 20 11 17 -1.5 31 10 17 -1.6										
x	10	10 10 18 -1.8 21 16 17 -0.2 32 8 16 -2.1										
y	4	11 19 17 0.4 22 15 17 -0.5 33 13 16 -0.9										
z	7	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W										

	W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE		
	2	1653	34969	1.229	-0.85	27	122	2418	1.312	0.60		
	3	1200	23250	1.342	2.79	28	104	2327	1.162	-0.90		
	4	821	17391	1.227	-0.65	29	99	2238	1.150	-1.02		
	5	805	13875	1.308	6.14	30	184	2160	2.215	8.67		
	6	585	11532	1.319	1.41	31	90	2082	1.124	-1.15		
	7	467	9858	1.232	-0.40	32	84	2013	1.085	-1.50		
	8	401	8602	1.212	-0.76	33	85	1947	1.135	-1.05		
	9	379	7626	1.292	0.68	34	70	1881	0.968	-2.56		
	10	402	6845	1.527	4.68	35	99	1825	1.410	1.42		
	11	282	6205	1.182	-1.12	36	82	1770	1.205	-0.38		
	12	305	5673	1.398	2.19	37	84	1715	1.273	0.17		
	13	254	5222	1.265	0.18	38	70	1665	1.093	-1.27		
	14	233	4836	1.253	0.01	39	80	1620	1.284	0.26		
	15	388	4500	2.242	12.87	40	107	1575	1.766	4.11		
	16	193	4209	1.192	-0.78	41	69	1530	1.173	-0.63		
	17	166	3949	1.093	-2.07	42	82	1488	1.433	1.45		
	18	175	3720	1.223	-0.35	43	66	1452	1.182	-0.56		
	19	170	3515	1.257	0.06	44	63	1416	1.157	-0.76		
	20	208	3330	1.624	4.46	45	110	1380	2.072	5.74		
	21	169	3162	1.390	1.52	46	58	1344	1.122	-0.91		
	22	134	3009	1.158	-1.03	47	57	1309	1.132	-0.84		
	23	133	2872	1.204	-0.53	48	68	1281	1.380	0.90		
	24	141	2745	1.336	0.92	49	52	1253	1.079	-1.21		
	25	148	2625	1.466	2.14	50	65	1225	1.380	0.90		
	26	117	2520	1.207	-0.45	51	57	1197	1.238	-0.10		

POLYGRAPHIC HITS AND IC

	LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
	4	372	12	0.16	79.46	30.5
	5	371	9	0.01	1557.87	118.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	2	345	h t d h
9	21	120	l n b u w r g m c
8	7	285	n f p h w g v p

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT q b z a y II 6 3(3)
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 342 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	11										
b	15	IC TESTS FOR SIGNIFICANCE									
c	8	MONO IC	0.9929	SIGMAGE	-0.3	342			2227	2242	
d	8	DIGRAPHIC TESTS									
e	13	DIGRAPH IC	1.073	SIGMAGE	0.7	341			92	86	
f	18	CUT A IC	1.535	SIGMAGE	2.5	171			33	22	
g	15	CUT B IC	1.129	SIGMAGE	0.6	170			24	21	
h	11	TRIGRAPHIC TESTS									
i	14	TRIGRAPH IC	2.44	SIGMAGE	2.6	340			8	3.27	
j	10	CUT A IC	2.74	SIGMAGE	1.1	114			1	0.36	
k	13	CUT B IC	5.56	SIGMAGE	2.7	113			2	0.36	
l	12	CUT C IC	2.78	SIGMAGE	1.1	113			1	0.36	
m	14	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	17	1 20 13 2.0 12 12 13 -0.2 23 12 12 0.0									
p	10	2 14 13 0.3 13 6 13 -1.9 24 10 12 -0.6									
q	14	3 11 13 -0.5 14 13 12 0.2 25 12 12 0.0									
r	22	4 12 13 -0.2 15 9 12 -1.0 26 27 12 4.4									
s	8	5 13 13 0.1 16 11 12 -0.4 27 15 12 0.9									
t	9	6 11 13 -0.5 17 18 12 1.6 28 8 12 -1.2									
u	10	7 4 13 -2.5 18 11 12 -0.4 29 13 12 0.3									
v	17	8 10 13 -0.8 19 10 12 -0.7 30 12 12 0.0									
w	16	9 16 13 1.0 20 13 12 0.2 31 15 12 0.9									
x	15	10 7 13 -1.6 21 16 12 1.1 32 5 12 -2.0									
y	13	11 6 13 -1.9 22 14 12 0.5 33 6 12 -1.7									
z	16	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1118	29070	1.000	0.24	27	75	1998	0.976	-0.15
3	732	19323	0.985	-0.22	28	71	1920	0.961	-0.29
4	554	14450	0.997	0.10	29	71	1848	0.999	0.05
5	431	11526	0.972	-0.44	30	67	1782	0.978	-0.12
6	367	9576	0.996	0.06	31	66	1716	1.000	0.06
7	322	8184	1.023	0.54	32	49	1660	0.767	-1.81
8	253	7140	0.921	-1.22	33	59	1605	0.956	-0.30
9	230	6327	0.945	-0.77	34	56	1550	0.939	-0.43
10	206	5678	0.943	-0.75	35	55	1503	0.951	-0.34
11	184	5146	0.930	-0.88	36	47	1458	0.838	-1.24
12	178	4704	0.984	-0.13	37	53	1413	0.975	-0.14
13	226	4329	1.357	4.73	38	57	1368	1.083	0.63
14	157	4008	1.018	0.33	39	58	1332	1.132	0.97
15	142	3729	0.990	-0.04	40	45	1296	0.903	-0.63
16	119	3486	0.888	-1.26	41	52	1260	1.073	0.56
17	128	3270	1.018	0.28	42	54	1224	1.147	1.08
18	100	3078	0.845	-1.63	43	32	1190	0.699	-2.06
19	106	2907	0.948	-0.50	44	48	1162	1.074	0.57
20	111	2754	1.048	0.61	45	44	1134	1.009	0.11
21	113	2616	1.123	1.30	46	36	1106	0.846	-1.03
22	95	2490	0.992	-0.01	47	46	1078	1.109	0.81
23	82	2373	0.898	-0.95	48	33	1050	0.817	-1.23
24	78	2268	0.894	-0.99	49	43	1023	1.093	0.60
25	77	2171	0.922	-0.64	50	37	1002	0.960	-0.20
26	136	2080	1.700	6.36	51	42	981	1.113	0.72

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	339	3	0.12	23.93	8.1
5	338	0	0.01	0.00	-0.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	47	156	d w f f
4	33	182	i x e p
4	55	156	t o v r

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT p h c o k II 6 4/2

for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 622 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	23										
b	21	IC TESTS FOR SIGNIFICANCE									
c	30	MONO IC 1.0001 SIGMAGE	0.0	622					7429	7428	
d	27	DIGRAPHIC TESTS									
e	23	DIGRAPH IC 1.008 SIGMAGE	0.1	621					287	285	
f	24	CUT A IC 1.052 SIGMAGE	0.4	311					75	71	
g	25	CUT B IC 1.101 SIGMAGE	0.9	310					78	71	
h	15	TRIGRAPHIC TESTS									
i	23	TRIGRAPH IC 1.19 SIGMAGE	0.6	620					13	10.91	
j	18	CUT A IC 1.65 SIGMAGE	0.7	207					2	1.21	
k	28	CUT B IC 0.83 SIGMAGE	-0.2	207					1	1.21	
l	26	CUT C IC 1.67 SIGMAGE	0.7	206					2	1.20	
m	16	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	30	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	27	1 19 24 -1.0 12 26 23 0.6 23 26 23 0.7									
p	24	2 14 24 -2.0 13 26 23 0.6 24 18 23 -1.0									
q	25	3 30 24 1.4 14 17 23 -1.3 25 29 23 1.4									
r	22	4 13 23 -2.2 15 13 23 -2.1 26 35 23 2.6									
s	15	5 23 23 -0.1 16 23 23 0.0 27 24 23 0.3									
t	37	6 18 23 -1.1 17 26 23 0.6 28 15 23 -1.6									
u	28	7 22 23 -0.3 18 19 23 -0.8 29 22 23 -0.1									
v	22	8 28 23 1.0 19 31 23 1.7 30 16 22 -1.4									
w	26	9 26 23 0.6 20 21 23 -0.4 31 11 22 -2.5									
x	23	10 35 23 2.5 21 20 23 -0.6 32 24 22 0.3									
y	24	11 18 23 -1.1 22 17 23 -1.2 33 27 22 1.0									
z	20	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3743	96410	1.009	0.56	27	247	6854	0.937	-1.07
3	2512	64170	1.018	0.92	28	243	6600	0.957	-0.69
4	1829	48050	0.990	-0.44	29	230	6363	0.940	-0.96
5	1501	38378	1.017	0.66	30	242	6140	1.025	0.40
6	1249	31930	1.017	0.61	31	202	5930	0.886	-1.71
7	1007	27324	0.958	-1.39	32	208	5738	0.942	-0.87
8	930	23870	1.013	0.40	33	203	5553	0.950	-0.75
9	795	21183	0.976	-0.70	34	212	5382	1.024	0.36
10	748	19034	1.022	0.62	35	171	5219	0.852	-2.07
11	641	17276	0.965	-0.91	36	183	5066	0.939	-0.85
12	632	15810	1.039	0.98	37	188	4920	0.993	-0.10
13	786	14570	1.403	9.67	38	195	4784	1.060	0.84
14	501	13508	0.964	-0.83	39	245	4650	1.370	5.18
15	471	12587	0.973	-0.59	40	178	4530	1.022	0.29
16	449	11780	0.991	-0.20	41	154	4410	0.908	-1.20
17	436	11070	1.024	0.50	42	165	4298	0.998	-0.03
18	382	10438	0.952	-0.96	43	181	4193	1.122	1.59
19	381	9872	1.003	0.06	44	150	4088	0.954	-0.60
20	355	9362	0.986	0.527	45	143	3991	0.932	-0.88
21	335	8903	0.978	-0.42	46	170	3900	1.133	1.73
22	319	8484	0.978	-0.40	47	125	3809	0.853	-1.76
23	334	8100	1.072	1.30	48	145	3720	1.013	0.16
24	304	7750	1.020	0.36	49	126	3642	0.900	-1.20
25	284	7428	1.01992111	-0.10	50	135	3564	0.985	-0.18
26	448	7130	1.634	10.78	51	134	3486	0.999	-0.01

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	619	1	0.41	2.39	0.9
5	618	0	0.02	0.00	-0.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	260	52	u o d f

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT f p d n x II 7 1

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for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 390 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	24						
b	14	IC TESTS FOR SIGNIFICANCE					
c	16	MONO IC 1.2123 SIGMAGE	11.7	390	3537	2917	
d	12	DIGRAPHIC TESTS					
e	6	DIGRAPH IC 2.230 SIGMAGE	13.0	389	249	112	
f	8	CUT A IC 3.181 SIGMAGE	11.6	195	89	28	
g	7	CUT B IC 2.997 SIGMAGE	10.5	194	83	28	
h	7	TRIGRAPHIC TESTS					
i	25	TRIGRAPH IC 11.71 SIGMAGE	22.2	388	50	4.27	
j	14	CUT A IC 25.26 SIGMAGE	16.8	130	12	0.47	
k	4	CUT B IC 47.31 SIGMAGE	31.9	129	22	0.46	
l	29	CUT C IC 25.81 SIGMAGE	17.1	129	12	0.46	
m	11	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	25	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE					
o	24	1 19 18 0.2 12 29 18 2.7 23 11 17 -1.5					
p	18	2 14 18 -1.0 13 19 18 0.3 24 20 17 0.7					
q	4	3 25 18 1.6 14 21 18 0.8 25 14 17 -0.8					
r	24	4 13 18 -1.2 15 19 18 0.3 26 19 17 0.5					
s	17	5 10 18 -2.0 16 19 18 0.3 27 17 17 0.0					
t	25	6 16 18 -0.5 17 21 18 0.8 28 8 17 -2.2					
u	7	7 17 18 -0.2 18 23 17 1.4 29 13 17 -1.0					
v	3	8 17 18 -0.2 19 20 17 0.6 30 21 17 1.0					
w	20	9 18 18 0.0 20 20 17 0.6 31 16 17 -0.2					
x	23	10 15 18 -0.7 21 20 17 0.7 32 15 17 -0.5					
y	9	11 9 18 -2.1 22 10 17 -1.8 33 14 17 -0.7					
z	14	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1915	37830	1.316	4.06	27	138	2625	1.367	1.55
3	1450	25155	1.499	9.18	28	116	2522	1.196	-0.16
4	942	18818	1.302	2.43	29	92	2431	0.984	-2.28
5	669	15015	1.158	-1.35	30	165	2340	1.833	6.21
6	847	12480	1.765	12.17	31	112	2262	1.287	0.75
7	502	10670	1.223	0.23	32	121	2184	1.440	2.05
8	486	9312	1.357	2.76	33	110	2112	1.354	1.28
9	459	8256	1.445	4.19	34	119	2046	1.512	2.70
10	403	7410	1.414	3.43	35	83	1980	1.090	-1.10
11	279	6720	1.079	-2.13	36	134	1920	1.815	5.43
12	433	6144	1.832	9.92	37	80	1865	1.115	-0.87
13	255	5655	1.172	-0.60	38	94	1810	1.350	1.24
14	260	5238	1.291	1.19	39	82	1755	1.215	0.02
15	275	4875	1.467	3.57	40	95	1710	1.444	1.86
16	267	4560	1.522	4.34	41	61	1665	0.953	-2.07
17	238	4279	1.446	3.04	42	104	1620	1.669	3.66
18	268	4032	1.728	6.71	43	51	1575	0.842	-2.96
19	198	3810	1.351	1.67	44	69	1536	1.168	-0.35
20	194	3610	1.397	2.22	45	84	1500	1.456	1.95
21	188	3429	1.425	2.56	46	76	1464	1.350	1.10
22	144	3264	1.147	-0.72	47	46	1428	0.838	-2.99
23	147	3112	1.228	0.18	48	128	1392	2.391	9.43
24	220	2976	1.922	7.81	49	61	1358	1.168	-0.31
25	135	2850	1.232	0.22	50	74	1330	1.447	1.65
26	137	2730	1.305	0.93	51	85	1302	1.697	3.40

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	387	27	0.17	165.19	66.5
5	386	16	0.01	2556.51	389.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
12	3	240	d n x s l a f - i i t g s
6	71	60	e i w r n m
4	49	96	i a r t
5	59	132	i u j o b
4	59	270	i u j o
4	191	138	i u j o
4	343	36	j r l h
5	17	102	l i c x z
4	304	48	l t n l
8	41	228	m h c o a x o a
4	136	186	m i n x

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT n p y g n II 7 2
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 267 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	15										
b	3	IC TESTS FOR SIGNIFICANCE									
c	8	MONO IC	1.0287	SIGMAGE	1.0	267			1405	1365	
d	15	DIGRAPHIC TESTS									
e	9	DIGRAPH IC	1.534	SIGMAGE	3.9	266			80	52	
f	9	CUT A IC	1.155	SIGMAGE	0.6	133			15	13	
g	12	CUT B IC	1.386	SIGMAGE	1.4	133			18	13	
h	7	TRIGRAPHIC TESTS									
i	10	TRIGRAPH IC	9.05	SIGMAGE	11.4	265			18	1.99	
j	11	CUT A IC	18.18	SIGMAGE	8.2	89			4	0.22	
k	8	CUT B IC	22.73	SIGMAGE	10.2	88			5	0.22	
l	10	CUT C IC	36.36	SIGMAGE	16.6	88			8	0.22	
m	11	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	20	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	16	1 18 11 2.3 12 6 10 -1.3 23 12 10 0.7									
p	12	2 6 11 -1.4 13 10 10 -0.1 24 12 10 0.7									
q	7	3 9 11 -0.5 14 7 10 -1.0 25 15 10 1.7									
r	9	4 6 11 -1.4 15 15 10 1.6 26 11 10 0.4									
s	15	5 10 10 -0.2 16 4 10 -1.9 27 6 10 -1.2									
t	12	6 8 10 -0.8 17 9 10 -0.3 28 9 10 -0.2									
u	7	7 9 10 -0.4 18 4 10 -1.9 29 6 10 -1.2									
v	6	8 9 10 -0.4 19 16 10 2.0 30 16 9 2.2									
w	9	9 13 10 0.9 20 10 10 0.0 31 5 9 -1.5									
x	10	10 11 10 0.2 21 10 10 0.1 32 12 9 0.9									
y	8	11 14 10 1.2 22 4 10 -1.9 33 11 9 0.5									
z	8	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	664	17689	0.976	-1.43	27	43	1188	0.941	-0.62
3	512	11748	1.133	2.29	28	42	1143	0.955	-0.52
4	333	8778	0.986	-0.82	29	41	1098	0.971	-0.41
5	373	6996	1.386	6.07	30	68	1056	1.674	4.52
6	242	5808	1.083	0.81	31	41	1020	1.045	0.10
7	187	4959	0.980	-0.69	32	39	984	1.030	0.01
8	174	4323	1.046	0.22	33	37	948	1.015	-0.08
9	159	3828	1.080	0.61	34	33	917	0.936	-0.56
10	167	3432	1.265	2.83	35	43	889	1.258	1.37
11	109	3108	0.912	-1.29	36	35	861	1.057	0.17
12	121	2838	1.109	0.88	37	41	833	1.280	1.51
13	103	2610	1.026	-0.03	38	22	805	0.711	-1.91
14	88	2413	0.948	-0.81	39	22	783	0.731	-1.79
15	162	2244	1.877	8.48	40	37	762	1.262	1.40
16	82	2096	1.017	-0.11	41	30	741	1.053	0.14
17	68	1965	0.900	-1.16	42	30	720	1.083	0.27
18	73	1848	1.027	-0.02	43	32	699	1.190	0.81
19	67	1743	0.999	-0.24	44	15	678	0.575	-2.27
20	74	1651	1.165	1.09	45	53	660	2.088	5.30
21	70	1566	1.162	1.06	46	17	645	0.685	-1.72
22	39	1488	0.681	-2.78	47	17	630	0.702	-1.64
23	50	1419	0.916	-0.90	48	30	615	1.268	1.20
24	63	1353	1.211	1.27	49	24	600	1.040	0.06
25	71	1295	1.425	2.77	50	28	585	1.244	1.08
26	50	1240	1.048	0.13	51	19	570	0.867	-0.81

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	264	8	0.07	105.29	28.8
5	263	4	0.01	1374.36	74.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
6	24	90	a s j n y m
4	176	15	h t k p
4	142	24	o l d o
6	75	105	s x e z f n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT w j w h z II 7 9
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 1050 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	37						
b	25	IC TESTS FOR SIGNIFICANCE					
c	40	MONO IC	1.0280	SIGMAGE	4.1 1050	21775	21181
d	56	DIGRAPHIC TESTS					
e	61	DIGRAPH IC	1.252	SIGMAGE	7.2 1049	1018	813
f	53	CUT A IC	1.543	SIGMAGE	7.8 525	314	203
g	32	CUT B IC	1.470	SIGMAGE	6.7 524	298	203
h	43	TRIGRAPHIC TESTS					
i	24	TRIGRAPH IC	3.04	SIGMAGE	11.4 1048	95	31.21
j	43	CUT A IC	8.36	SIGMAGE	13.7 350	29	3.47
k	38	CUT B IC	7.23	SIGMAGE	11.6 349	25	3.46
l	54	CUT C IC	6.94	SIGMAGE	11.1 349	24	3.46
m	45	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	40	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE					
o	34	1 41 42 -0.2 12 37 42 -0.7 23 34 41 -1.1					
p	33	2 44 42 0.3 13 29 41 -2.0 24 42 41 0.2					
q	48	3 45 42 0.5 14 38 41 -0.5 25 42 41 0.2					
r	33	4 32 42 -1.6 15 43 41 0.3 26 39 41 -0.3					
s	41	5 56 42 2.2 16 38 41 -0.5 27 35 41 -0.9					
t	32	6 45 42 0.5 17 29 41 -2.0 28 42 41 0.2					
u	29	7 40 42 -0.3 18 44 41 0.4 29 57 41 2.6					
v	40	8 39 42 -0.4 19 40 41 -0.2 30 77 41 5.8					
w	52	9 25 42 -2.6 20 48 41 1.1 31 28 41 -2.0					
x	38	10 46 42 0.7 21 46 41 0.8 32 38 41 -0.4					
y	41	11 35 42 -1.0 22 43 41 0.3 33 28 41 -2.0					
z	38	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	11481	275100	1.085	5.99	27	820	19893	1.072	1.23
3	7787	183225	1.105	6.62	28	809	19166	1.097	1.93
4	5741	137288	1.087	4.37	29	741	18486	1.042	0.38
5	4974	109725	1.179	9.97	30	1371	17850	1.997	26.16
6	4498	91350	1.280	15.12	31	650	17259	0.979	-1.27
7	3100	78225	1.030	0.11	32	677	16704	1.054	0.68
8	2909	68382	1.106	4.06	33	656	16182	1.054	0.65
9	2554	60726	1.094	3.23	34	685	15690	1.135	2.68
10	2850	54600	1.357	15.46	35	686	15225	1.171	3.58
11	1909	49590	1.001	-1.22	36	711	14790	1.250	5.33
12	2213	45414	1.267	10.28	37	521	14378	0.942	-2.06
13	1684	41880	1.045	0.70	38	544	13986	1.011	-0.41
14	1606	38850	1.075	1.83	39	571	13611	1.091	1.45
15	2021	36225	1.451	16.07	40	709	13260	1.390	8.33
16	1457	33930	1.116	3.26	41	454	12925	0.913	-2.65
17	1290	31903	1.051	0.83	42	618	12600	1.275	5.43
18	1438	30102	1.242	7.49	43	450	12300	0.951	-1.69
19	1106	28490	1.009	-0.65	44	503	12006	1.089	1.34
20	1407	27040	1.353	10.73	45	624	11730	1.383	7.81
21	1110	25725	1.122	3.01	46	452	11462	1.025	-0.06
22	1022	24534	1.083	1.71	47	429	11209	0.995	-0.69
23	915	23445	1.015	-0.40	48	560	10962	1.328	6.30
24	1110	22446	1.286	7.74	49	405	10731	0.981	-0.99
25	954	21525	1.152	3.60	50	527	10500	1.305	5.82
26	874	20680	1.099	2.06	51	430	10290	1.086	1.16

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	1047	37	1.19	30.88	32.7
5	1046	12	0.05	260.88	55.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
5	596	270	a l y i e	
4	31	870	c l c c	
5	121	450	c l o d e	
6	97	450	e j t k q s	
4	399	60	f k x s	
4	399	570	f k x s	
4	459	510	f k x s	
4	132	210	h z f p	
4	50	845	i l c l	
4	331	300	i t m m	
6	376	450	j c g y n p	
4	98	120	j t k q	
4	98	810	j t k q	
4	218	330	j t k q	
6	218	690	j t k q e v	
4	548	360	j t k q	
5	321	690	p g b g g	
5	165	150	q w i h f	
5	442	90	s d z r a	
5	154	720	s s w x l	
4	241	171	u q v k	
4	577	180	v f h e	
4	577	420	v f h e	
4	757	240	v f h e	
4	468	135	z d p l	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 2 5 7 0 II 8 1
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 450 DITS 0

						HITS OBSERVED	HITS EXPECTED
0	47						
1	46	IC TESTS FOR SIGNIFICANCE		TOTAL			
2	44	MONO IC 0.9842 SIGMAGE	-1.6	450		9943	10102
3	41	DIGRAPHIC TESTS					
4	48	DIGRAPH IC 1.175 SIGMAGE	5.6	449		1182	1006
5	40	CUT A IC 1.897 SIGMAGE	14.3	225		478	252
6	43	CUT B IC 1.225 SIGMAGE	3.6	224		306	250
7	46	TRIGRAPHIC TESTS					
8	45	TRIGRAPH IC 1.69 SIGMAGE	6.9	448		169	100.13
9	50	CUT A IC 2.24 SIGMAGE	4.2	150		25	11.18
		CUT B IC 1.81 SIGMAGE	2.7	149		20	11.03
		CUT C IC 1.27 SIGMAGE	0.9	149		14	11.03

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	37	44	-1.1	12	35	43	-1.3	23	44	42	0.4
2	45	44	0.2	13	46	43	0.5	24	30	42	-1.9
3	53	44	1.5	14	31	43	-1.9	25	62	42	3.3
4	33	44	-1.7	15	61	43	3.0	26	33	42	-1.4
5	62	44	2.9	16	37	43	-0.9	27	45	41	0.6
6	23	44	-3.3	17	39	42	-0.6	28	35	41	-1.0
7	57	43	2.2	18	39	42	-0.5	29	42	41	0.1
8	37	43	-1.0	19	20	42	-3.6	30	57	41	2.6
9	50	43	1.1	20	85	42	6.9	31	40	41	-0.2
10	59	43	2.5	21	33	42	-1.5	32	36	41	-0.8
11	42	43	-0.2	22	47	42	0.8	33	29	41	-2.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4913	50400	0.975	-0.68	27	324	3528	0.918	-1.32
3	3257	33525	0.972	-0.73	28	330	3392	0.973	-0.21
4	2616	25088	1.043	3.13	29	298	3270	0.911	-1.39
5	2972	20025	1.484	23.50	30	508	3150	1.613	11.95
6	1566	16650	0.941	-1.85	31	273	3045	0.897	-1.57
7	1351	14240	0.949	-1.40	32	277	2940	0.942	-0.76
8	1290	12432	1.038	2.00	33	245	2847	0.861	-2.21
9	1072	11025	0.972	-0.42	34	252	2756	0.914	-1.26
10	1681	9900	1.698	23.56	35	358	2670	1.341	6.07
11	848	8980	0.944	-1.28	36	256	2592	0.988	0.07
12	814	8214	0.991	0.21	37	243	2514	0.967	-0.29
13	733	7565	0.969	-0.44	38	227	2442	0.930	-0.86
14	628	7008	0.896	-2.46	39	209	2376	0.880	-1.66
15	952	6525	1.459	12.83	40	484	2310	2.095	17.78
16	599	6104	0.981	-0.08	41	206	2245	0.918	-1.06
17	550	5733	0.959	-0.63	42	177	2190	0.808	-2.82
18	510	5400	0.944	-1.00	43	194	2135	0.909	-1.13
19	480	5106	0.940	-1.06	44	201	2080	0.966	-0.27
20	1011	4840	2.089	25.42	45	299	2025	1.477	7.40
21	424	4599	0.922	-1.43	46	164	1980	0.828	-2.34
22	428	4380	0.977	-0.15	47	170	1935	0.879	-1.58
23	370	4180	0.885	-2.18	48	155	1890	0.820	-2.46
24	382	3996	0.956	-0.59	49	198	1845	1.073	1.25
25	575	3825	1.503	10.90	50	310	1800	1.722	10.33
26	348	3672	0.948	-0.72	51	184	1764	1.043	0.83

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	447	32	9.96	3.21	7.0
5	446	11	1.00	11.08	10.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	55	225	0 5 3 5	
4	200	160	0 5 7 1	
4	5	120	0 8 7 4	
4	155	195	0 9 7 1	
4	350	85	0 9 7 1	
4	65	20	0 9 9 1	
4	65	80	0 9 9 1	
5	85	60	0 9 9 1	6
4	333	2	2 9 2 9	
4	234	160	3 3 4 8	
6	395	20	3 4 8 5	7 4
5	29	300	4 2 8 2	2
4	129	120	4 5 9 1	
4	341	20	5 7 1 3	
4	58	360	5 7 4 5	
4	294	58	7 1 8 3	
11	150	280	7 4 2 2	9 0 9 7 1 2 3
4	299	26	7 8 8 1	
4	357	24	8 1 1 0	
4	131	16	9 1 6 7	
4	289	45	9 2 9 2	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT 9 3 3 9 4 II 8 2
for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 210 DITS 0

0	5												
1	0	IC TESTS FOR SIGNIFICANCE											
2	5	MONO IC	1.4186	SIGMAGE	20.7	210							
3	20	DIGRAPHIC TESTS											
4	16	DIGRAPH IC	2.236	SIGMAGE	18.4	209							
5	35	CUT A IC	2.234	SIGMAGE	9.2	105							
6	41	CUT B IC	2.278	SIGMAGE	9.4	104							
7	40	TRIGRAPHIC TESTS											
8	30	TRIGRAPH IC	3.76	SIGMAGE	12.8	208							
9	18	CUT A IC	2.07	SIGMAGE	1.7	70							
		CUT B IC	4.68	SIGMAGE	5.7	69							
		CUT C IC	4.26	SIGMAGE	5.0	69							

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	32	30	0.5	12	32	28	0.8	23	28	27	0.3
2	28	30	-0.3	13	26	28	-0.4	24	17	26	-2.0
3	35	29	1.1	14	33	28	1.1	25	25	26	-0.3
4	28	29	-0.3	15	24	28	-0.8	26	21	26	-1.1
5	36	29	1.4	16	24	28	-0.7	27	21	26	-1.1
6	33	29	0.8	17	23	27	-0.9	28	32	26	1.3
7	25	29	-0.8	18	26	27	-0.3	29	22	26	-0.8
8	23	29	-1.1	19	31	27	0.8	30	13	26	-2.7
9	34	29	1.1	20	24	27	-0.6	31	27	25	0.3
10	32	28	0.7	21	23	27	-0.8	32	24	25	-0.3
11	23	28	-1.1	22	31	27	0.9	33	21	25	-0.9

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1547	10920	1.417	-0.07	27	90	714	1.261	-1.42
3	998	7245	1.378	-1.15	28	108	686	1.574	1.40
4	771	5408	1.426	0.18	29	83	658	1.261	-1.42
5	591	4305	1.373	-1.01	30	79	630	1.254	-1.32
6	486	3570	1.361	-1.16	31	86	609	1.412	-0.06
7	447	3045	1.468	0.88	32	76	588	1.293	-1.01
8	356	2652	1.342	-1.31	33	83	567	1.464	0.36
9	318	2346	1.355	-1.02	34	61	546	1.117	-2.42
10	281	2100	1.338	-1.22	35	75	525	1.429	0.08
11	309	1900	1.626	3.11	36	64	510	1.255	-1.31
12	238	1734	1.373	-0.64	37	89	495	1.798	2.65
13	211	1592	1.325	-1.22	38	64	480	1.333	-0.60
14	240	1470	1.633	2.78	39	65	465	1.398	-0.15
15	174	1365	1.275	-1.73	40	54	450	1.200	-1.53
16	169	1274	1.327	-1.10	41	65	435	1.494	0.53
17	152	1194	1.273	-1.75	42	57	420	1.357	-0.43
18	152	1122	1.355	-0.70	43	59	410	1.439	0.14
19	153	1056	1.449	0.33	44	94	400	2.350	6.52
20	136	1000	1.360	-0.65	45	47	390	1.205	-1.50
21	118	945	1.249	-1.70	46	56	380	1.474	0.39
22	172	900	1.911	4.92	47	70	370	1.892	2.84
23	117	855	1.368	-0.51	48	46	360	1.278	-0.85
24	106	816	1.299	-1.20	49	58	350	1.657	1.43
25	118	780	1.513	0.85	50	54	340	1.588	1.01
26	89	744	1.196	-2.01	51	45	330	1.364	-0.33

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	207	20	2.14	9.38	12.3
5	206	7	0.22	33.15	14.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
5	20	117	4 6 8 7 7	
4	46	54	5 6 9 5	
4	56	6	5 7 6 6	
4	78	19	6 7 8 5	
4	78	107	6 7 8 5	
6	97	88	6 7 8 5 6 9	
5	38	9	6 9 5 5 7	
5	63	87	7 6 6 6 8	
5	107	41	7 6 7 6 6	
4	98	57	7 8 5 6	
4	155	31	7 8 5 6	
4	131	25	8 5 6 4	
5	102	44	9 5 7 6 7	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 4 5 6 7 5 II 8 4

for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 300 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	0	IC TESTS FOR SIGNIFICANCE		TOTAL				
1	0	MONO IC	1.7224	SIGMAGE	51.0	300	7725	4485
2	4	DIGRAPHIC TESTS						
3	20	DIGRAPH IC	3.010	SIGMAGE	42.7	299	1341	446
4	38	CUT A IC	3.123	SIGMAGE	22.6	150	349	112
5	69	CUT B IC	3.120	SIGMAGE	22.5	149	344	110
6	68	TRIGRAPHIC TESTS						
7	57	TRIGRAPH IC	5.18	SIGMAGE	27.9	298	229	44.25
8	34	CUT A IC	4.65	SIGMAGE	8.2	100	23	4.95
9	10	CUT B IC	4.54	SIGMAGE	7.8	99	22	4.85
		CUT C IC	5.36	SIGMAGE	9.7	99	26	4.85

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	46	51	-0.8	12	41	50	-1.3	23	61	48	2.1
2	58	51	1.0	13	52	49	0.4	24	49	47	0.2
3	62	51	1.7	14	60	49	1.7	25	40	47	-1.2
4	49	51	-0.3	15	42	49	-1.1	26	41	47	-1.0
5	48	51	-0.4	16	50	49	0.2	27	45	47	-0.3
6	48	51	-0.4	17	61	49	1.9	28	58	47	1.8
7	40	50	-1.6	18	44	49	-0.7	29	38	47	-1.4
8	50	50	0.0	19	53	48	0.7	30	60	46	2.2
9	43	50	-1.1	20	43	48	-0.8	31	47	46	0.1
10	51	50	0.2	21	48	48	0.0	32	37	46	-1.5
11	47	50	-0.4	22	47	48	-0.1	33	46	46	0.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3867	22350	1.730	0.40	27	266	1518	1.752	0.39
3	2513	14850	1.692	-1.23	28	321	1460	2.199	6.20
4	1925	11100	1.734	0.42	29	213	1405	1.516	-2.68
5	1502	8850	1.697	-0.78	30	232	1350	1.719	-0.04
6	1261	7350	1.716	-0.17	31	227	1305	1.739	0.20
7	1099	6279	1.750	0.73	32	209	1260	1.659	-0.76
8	941	5476	1.718	-0.10	33	220	1215	1.811	1.07
9	800	4851	1.649	-1.68	34	209	1176	1.777	0.61
10	768	4350	1.766	0.97	35	185	1140	1.623	-1.09
11	658	3942	1.669	-1.11	36	177	1104	1.603	-1.31
12	605	3600	1.681	-0.82	37	200	1068	1.873	1.66
13	550	3312	1.661	-1.16	38	162	1036	1.564	-1.74
14	605	3066	1.973	4.52	39	158	1008	1.567	-1.71
15	483	2850	1.695	-0.49	40	176	980	1.796	0.74
16	457	2664	1.715	-0.12	41	156	952	1.639	-0.83
17	456	2499	1.825	1.75	42	183	924	1.981	2.59
18	380	2352	1.616	-1.70	43	144	897	1.605	-1.17
19	378	2220	1.703	-0.30	44	153	876	1.747	0.25
20	363	2100	1.729	0.11	45	157	855	1.836	1.14
21	357	1995	1.789	1.01	46	154	834	1.847	1.25
22	325	1898	1.712	-0.15	47	141	813	1.734	0.12
23	329	1807	1.821	1.39	48-8388525	792	-8.416	-91.24	
24	279	1728	1.615	-1.50	49	122	771	1.582	-1.26
25	275	1650	1.667	-0.77	50	131	750	1.747	0.23
26	263	1584	1.660	-0.81	51	142	735	1.932	1.89

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	43	4.39	9.78	18.5
5	296	9	0.43	20.61	13.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	24	257	4 6 4 7	
4	156	112	4 6 5 7	
4	147	56	4 6 7 4	
4	261	16	5 3 6 8	
5	5	26	5 4 5 7	5
4	9	221	5 5 5 7	
4	9	229	5 5 5 7	
6	230	8	5 5 5 7	4 7
4	179	53	5 7 4 7	
4	179	61	5 7 4 7	
4	7	4	5 7 5 5	
4	33	136	5 7 5 7	
4	33	224	5 7 5 7	
4	169	88	5 7 5 7	
4	35	123	5 7 6 6	
4	117	40	6 5 7 6	
6	117	135	6 5 7 6	7 5
4	157	95	6 5 7 6	
4	62	207	6 5 7 7	
4	52	214	6 6 4 6	
5	79	17	6 6 8 5	4
5	3	101	6 7 5 4	5
4	123	140	6 8 6 6	
4	256	2	7 5 7 5	
4	71	13	7 5 7 7	
5	140	79	7 5 8 6	6
4	36	29	7 6 6 9	
4	103	16	7 6 7 5	
4	103	151	7 6 7 5	
5	112	84	8 4 8 6	6
4	185	51	8 5 5 5	
4	114	150	8 6 6 6	
4	198	23	8 6 6 7	
4	139	68	8 7 5 8	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 3 3 9 4 6 II 8 5
 for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 429 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	50						
1	54	IC TESTS FOR SIGNIFICANCE					
2	40	MONO IC 0.9991	SIGMAGE	-0.1	429	9172	9180
3	43	DIGRAPHIC TESTS					
4	47	DIGRAPH IC 0.974	SIGMAGE	-0.8	428	890	914
5	42	CUT A IC 0.904	SIGMAGE	-1.5	214	206	228
6	38	CUT B IC 1.027	SIGMAGE	0.4	214	234	228
7	41	TRIGRAPHIC TESTS					
8	43	TRIGRAPH IC 1.08	SIGMAGE	0.8	427	98	90.95
9	31	CUT A IC 1.08	SIGMAGE	0.3	143	11	10.15
		CUT B IC 1.60	SIGMAGE	1.9	142	16	10.01
		CUT C IC 1.60	SIGMAGE	1.9	142	16	10.01

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	41	43	-0.3	12	40	42	-0.3	23	29	41	-1.9
2	39	43	-0.6	13	37	42	-0.8	24	44	41	0.6
3	46	43	0.5	14	41	42	-0.1	25	43	40	0.4
4	37	43	-0.9	15	45	41	0.6	26	43	40	0.4
5	43	42	0.1	16	35	41	-1.0	27	35	40	-0.9
6	50	42	1.2	17	28	41	-2.2	28	33	40	-1.2
7	47	42	0.8	18	31	41	-1.7	29	41	40	0.2
8	45	42	0.5	19	50	41	1.5	30	47	40	1.2
9	37	42	-0.8	20	45	41	0.7	31	34	40	-1.0
10	64	42	3.6	21	32	41	-1.5	32	35	40	-0.8
11	39	42	-0.5	22	34	41	-1.1	33	37	40	-0.4

WIDIE TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4531	45796	0.989	-0.71	27	322	3195	1.008	0.17
3	3071	30459	1.008	0.52	28	312	3075	1.015	0.30
4	2266	22791	0.994	-0.25	29	318	2961	1.074	1.35
5	1986	18190	1.092	4.19	30	321	2856	1.124	2.25
6	1510	15123	0.998	-0.04	31	267	2756	0.969	-0.54
7	1305	12932	1.009	0.38	32	244	2665	0.916	-1.41
8	1109	11289	0.982	-0.60	33	265	2574	1.030	0.53
9	996	10011	0.995	-0.13	34	262	2496	1.050	0.87
10	1018	8988	1.133	4.29	35	278	2418	1.150	2.42
11	787	8151	0.966	-0.99	36	223	2343	0.952	-0.75
12	748	7455	1.003	0.12	37	204	2277	0.896	-1.65
13	646	6864	0.941	-1.62	38	223	2211	1.009	0.16
14	646	6360	1.016	0.46	39	199	2145	0.928	-1.07
15	641	5922	1.082	2.16	40	231	2090	1.105	1.59
16	524	5538	0.946	-1.33	41	189	2035	0.929	-1.05
17	549	5200	1.056	1.37	42	198	1980	1.000	0.02
18	464	4899	0.947	-1.20	43	184	1926	0.955	-0.66
19	476	4631	1.028	0.67	44	183	1881	0.973	-0.36
20	493	4389	1.123	2.73	45	208	1836	1.133	1.88
21	402	4170	0.964	-0.77	46	171	1791	0.955	-0.62
22	379	3971	0.954	-0.95	47	186	1746	1.065	0.92
23	347	3789	0.916	-1.74	48	157	1704	0.921	-1.09
24	349	3621	0.964	-0.70	49	157	1668	0.941	-0.81
25	367	3468	1.058	1.18	50	177	1632	1.085	1.12
26	302	3328	0.907	-1.75	51	179	1596	1.122	1.60

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	426	14	9.06	1.55	1.7
5	425	6	0.91	6.66	5.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT									
4	12	6	0	5	1	9						
4	18	204	0	5	1	9						
4	323	70	1	4	6	5						
10	9	210	2	0	3	0	5	1	9	6	0	0
4	99	106	2	3	6	8						
4	292	126	2	5	6	7						
4	320	58	5	7	1	1						
4	133	274	7	3	4	1						

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 1 7 0 1 II 8 6
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 350 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	29						
1	45	IC TESTS FOR SIGNIFICANCE					
2	43	MONO IC	1.0022	SIGMAGE	0.1 350	6121	6107
3	32	DIGRAPHIC TESTS					
4	40	DIGRAPH IC	1.042	SIGMAGE	1.0 349	633	607
5	30	CUT A IC	1.025	SIGMAGE	0.3 175	156	152
6	38	CUT B IC	1.056	SIGMAGE	0.7 174	159	151
7	34	TRIGRAPHIC TESTS					
8	32	TRIGRAPH IC	0.81	SIGMAGE	-1.5 348	49	60.38
9	27	CUT A IC	0.90	SIGMAGE	-0.3 116	6	6.67
		CUT B IC	1.05	SIGMAGE	0.1 116	7	6.67
		CUT C IC	0.15	SIGMAGE	-2.2 116	1	6.67

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	42	35	1.3	12	33	34	-0.1	23	34	33	0.2
2	35	35	0.0	13	26	34	-1.4	24	36	33	0.6
3	39	35	0.8	14	34	34	0.1	25	39	33	1.2
4	28	35	-1.2	15	33	34	-0.1	26	29	32	-0.6
5	36	35	0.3	16	37	33	0.7	27	36	32	0.7
6	28	34	-1.2	17	35	33	0.3	28	34	32	0.3
7	49	34	2.6	18	33	33	0.0	29	26	32	-1.1
8	37	34	0.5	19	41	33	1.4	30	38	32	1.1
9	39	34	0.9	20	31	33	-0.4	31	42	32	1.9
10	28	34	-1.1	21	30	33	-0.5	32	24	32	-1.5
11	41	34	1.3	22	43	33	1.9	33	34	32	0.4

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3083	30450	1.012	0.58	27	230	2094	1.098	1.44
3	2063	20242	1.019	0.80	28	203	2016	1.007	0.08
4	1502	15138	0.992	-0.41	29	180	1938	0.929	-1.10
5	1201	12075	0.995	-0.26	30	200	1870	1.070	0.95
6	1036	10034	1.032	0.99	31	182	1804	1.009	0.10
7	868	8575	1.012	0.31	32	154	1740	0.885	-1.64
8	743	7482	0.993	-0.26	33	172	1685	1.021	0.27
9	741	6631	1.117	3.11	34	164	1630	1.006	0.05
10	601	5950	1.010	0.21	35	158	1575	1.003	0.01
11	558	5394	1.034	0.77	36	177	1530	1.157	2.02
12	526	4930	1.067	1.50	37	145	1485	0.976	-0.34
13	434	4537	0.957	-0.99	38	134	1440	0.931	-0.92
14	443	4200	1.055	1.17	39	141	1396	1.010	0.10
15	394	3910	1.008	0.13	40	137	1360	1.007	0.06
16	358	3654	0.980	-0.44	41	125	1324	0.944	-0.70
17	344	3430	1.003	0.02	42	138	1288	1.071	0.83
18	363	3230	1.124	2.32	43	120	1252	0.958	-0.53
19	312	3051	1.023	0.38	44	104	1218	0.854	-1.78
20	274	2890	0.948	-0.97	45	133	1190	1.118	1.39
21	270	2744	0.984	-0.31	46	102	1162	0.878	-1.36
22	260	2610	0.996	-0.10	47	112	1134	0.988	-0.15
23	226	2490	0.908	-1.60	48	124	1106	1.121	1.31
24	277	2380	1.164	2.59	49	117	1078	1.085	0.91
25	246	2275	1.081	1.26	50	121	1050	1.152	1.65
26	223	2184	1.021	0.30	51	102	1029	0.991	-0.12

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	347	3	6.01	0.50	-1.2
5	346	1	0.59	1.68	0.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT				
5	125	32	4	2	6	5	5
4	270	25	6	3	1	6	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 8 8 9 9 II 8 7A
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 711 DITS 0

						HITS OBSERVED	HITS EXPECTED
0	92						
1	58	IC TESTS FOR SIGNIFICANCE			TOTAL		
2	64	MONO IC 1.0256 SIGMAGE	4.2	711	25887	25240	
3	83	DIGRAPHIC TESTS					
4	51	DIGRAPH IC 1.132 SIGMAGE	6.7	710	2848	2517	
5	61	CUT A IC 1.124 SIGMAGE	3.1	355	706	628	
6	65	CUT B IC 1.171 SIGMAGE	4.3	355	736	628	
7	74	TRIGRAPHIC TESTS					
8	95	TRIGRAPH IC 1.41 SIGMAGE	6.5	709	355	250.99	
9	68	CUT A IC 1.68 SIGMAGE	3.6	237	47	27.97	
		CUT B IC 1.69 SIGMAGE	3.6	236	47	27.73	
		CUT C IC 1.23 SIGMAGE	1.2	236	34	27.73	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	61	73	-1.5	12	69	72	-0.4	23	58	71	-1.6
2	70	73	-0.4	13	58	72	-1.7	24	94	71	2.9
3	88	73	1.9	14	74	72	0.3	25	63	71	-1.0
4	65	73	-1.0	15	65	72	-0.8	26	79	71	1.1
5	70	73	-0.3	16	74	72	0.3	27	86	70	2.0
6	80	73	0.9	17	65	71	-0.8	28	65	70	-0.7
7	68	73	-0.6	18	78	71	0.8	29	80	70	1.2
8	70	72	-0.3	19	69	71	-0.3	30	66	70	-0.5
9	77	72	0.6	20	72	71	0.1	31	72	70	0.2
10	81	72	1.1	21	80	71	1.1	32	76	70	0.8
11	82	72	1.2	22	68	71	-0.4	33	69	70	-0.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	12997	126025	1.031	0.59	27	940	9009	1.043	0.54
3	8613	83898	1.027	0.10	28	930	8675	1.072	1.43
4	6454	62835	1.027	0.08	29	835	8364	0.998	-0.87
5	5238	50197	1.043	1.28	30	805	8073	0.997	-0.87
6	4266	41772	1.021	-0.34	31	821	7799	1.053	0.78
7	3753	35754	1.050	1.51	32	767	7546	1.016	-0.29
8	3195	31240	1.023	-0.18	33	707	7308	0.967	-1.71
9	2811	27729	1.014	-0.67	34	725	7080	1.024	-0.06
10	2579	24921	1.035	0.48	35	755	6870	1.099	2.04
11	2293	22624	1.014	-0.60	36	669	6669	1.003	-0.62
12	2129	20709	1.028	0.10	37	689	6479	1.063	1.00
13	1925	19089	1.008	-0.83	38	621	6300	0.986	-1.04
14	1901	17700	1.074	2.11	39	654	6129	1.067	1.07
15	1708	16497	1.035	0.39	40	586	5967	0.982	-1.14
16	1588	15444	1.028	0.08	41	577	5814	0.992	-0.85
17	1497	14514	1.031	0.20	42	595	5664	1.050	0.60
18	1378	13689	1.007	-0.74	43	569	5528	1.029	0.08
19	1273	12950	0.983	-1.63	44	565	5392	1.048	0.53
20	1240	12285	1.009	-0.63	45	552	5265	1.048	0.53
21	1212	11682	1.037	0.40	46	521	5145	1.013	-0.31
22	1111	11136	0.998	-0.98	47	509	5025	1.013	-0.31
23	1038	10635	0.976	-1.70	48	489	4914	0.995	-0.71
24	1036	10179	1.018	-0.27	49	478	4809	0.994	-0.74
25	1057	9758	1.083	1.88	50	526	4704	1.118	2.12
26	938	9369	1.001	-0.80	51	448	4602	0.973	-1.22

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	708	76	25.02	3.04	10.2
5	707	30	2.49	12.02	17.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	110	526	0 2 0	4
4	221	144	0 2 5	0
5	81	31	0 4 8	9 6
4	124	193	0 5 8	8
7	124	382	0 5 8	8 8 3
4	317	189	0 5 8	8
4	99	584	0 8 7	0
5	205	373	1 3 5	3 9
4	205	444	1 3 5	3
4	578	71	1 3 5	3
4	325	93	1 8 2	1
4	325	262	1 8 2	1
4	418	169	1 8 2	1
4	75	182	2 0 6	1
4	420	22	2 1 0	6
4	45	279	2 1 8	2
4	603	56	4 4 5	0
4	104	95	4 6 5	5
12	132	382	4 8 7	9 3 8 3 0 0 3 8 7
4	32	50	4 8 9	6
4	32	81	4 8 9	6
4	575	36	5 0 2	1
4	15	693	5 7 1	3
4	253	455	5 7 1	3
4	273	83	5 8 0	8
5	107	255	5 9 8	0 2
4	346	56	6 8 6	4
4	474	29	7 2 3	0
10	283	24	7 7 0	2 9 3 4 6 5 8
4	52	270	7 7 2	1
4	7	127	7 9 3	8
4	7	509	7 9 3	8
4	134	111	7 9 3	8
4	245	271	7 9 3	8
4	63	485	8 7 0	0
4	23	533	8 7 3	8
14	5	23	9 0 7	9 3 8 7 3 6 7 5 7 1 3
4	135	457	9 3 8	3
4	517	75	9 3 8	3
4	27	597	9 3 8	6
4	69	150	9 5 0	2
4	69	541	9 5 0	2
4	69	565	9 5 0	2
4	219	391	9 5 0	2
4	219	415	9 5 0	2
4	610	24	9 5 0	2

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT 8 4 4 8 7 II 9 1A

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for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 415 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	33						
1	51	IC TESTS FOR SIGNIFICANCE					
2	52	MONO IC 1.0212	SIGMAGE	2.0	415	8773	8590
3	30	DIGRAPHIC TESTS					
4	34	DIGRAPH IC 1.045	SIGMAGE	1.3	414	893	855
5	31	CUT A IC 1.102	SIGMAGE	1.5	207	235	213
6	40	CUT B IC 1.098	SIGMAGE	1.4	207	234	213
7	50	TRIGRAPHIC TESTS					
8	51	TRIGRAPH IC 1.12	SIGMAGE	1.1	413	95	85.07
9	43	CUT A IC 1.27	SIGMAGE	0.8	138	12	9.45
		CUT B IC 1.06	SIGMAGE	0.2	138	10	9.45
		CUT C IC 0.86	SIGMAGE	-0.4	137	8	9.31

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	43	42	0.1	12	35	41	-1.0	23	32	40	-1.3
2	45	42	0.5	13	48	41	1.2	24	36	40	-0.6
3	33	42	-1.5	14	48	41	1.2	25	41	40	0.2
4	40	42	-0.3	15	38	41	-0.5	26	51	40	1.9
5	47	42	0.8	16	41	41	0.0	27	3	40	-0.6
6	34	42	-1.3	17	43	41	0.4	28	62	39	3.8
7	35	42	-1.1	18	37	40	-0.6	29	39	39	-0.1
8	45	42	0.6	19	40	40	-0.1	30	49	39	1.6
9	45	41	0.6	20	40	40	0.0	31	38	39	-0.2
10	29	41	-2.0	21	28	40	-2.0	32	36	39	-0.5
11	40	41	-0.2	22	44	40	0.7	33	40	39	0.2

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4462	42849	1.041	1.38	27	294	2985	0.985	-0.65
3	2840	28497	0.997	-1.34	28	465	2870	1.620	10.78
4	2422	21321	1.136	5.64	29	258	2765	0.933	-1.58
5	1724	17015	1.013	-0.35	30	291	2665	1.092	1.21
6	1428	14145	1.010	-0.44	31	250	2574	0.971	-0.85
7	1353	12095	1.119	3.63	32	279	2484	1.123	1.73
8	1195	10557	1.132	3.77	33	231	2406	0.960	-0.98
9	961	9361	1.027	0.19	34	223	2328	0.958	-1.01
10	874	8405	1.040	0.59	35	229	2255	1.016	-0.08
11	755	7622	0.991	-0.87	36	242	2189	1.106	1.36
12	784	6970	1.125	2.91	37	216	2123	1.017	-0.06
13	640	6417	0.997	-0.65	38	222	2060	1.078	0.86
14	788	5945	1.325	7.90	39	191	2005	0.953	-1.02
15	552	5535	0.997	-0.60	40	208	1950	1.067	0.69
16	587	5175	1.134	2.71	41	222	1895	1.172	2.27
17	476	4860	0.979	-0.97	42	241	1845	1.306	3.99
18	463	4577	1.012	-0.21	43	179	1800	0.994	-0.38
19	441	4326	1.019	-0.04	44	182	1755	1.037	0.22
20	456	4100	1.112	1.91	45	161	1710	0.942	-1.11
21	421	3895	1.081	1.26	46	173	1665	1.039	0.25
22	380	3708	1.025	0.08	47	166	1628	1.020	-0.01
23	365	3537	1.032	0.22	48	168	1592	1.055	0.44
24	386	3383	1.141	2.28	49	163	1556	1.048	0.35
25	330	3240	1.019	-0.04	50	153	1520	1.007	-0.18
26	309	3105	0.995	-0.49	51	147	1484	0.991	-0.39

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	412	14	8.46	1.65	1.9
5	411	3	0.85	3.56	2.4

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STETHOSCOPE PROGRAM PAGE 2
LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT						
7	11	224	0	4	1	4	6	7	5
4	204	84	1	3	6	2			
4	187	140	3	6	5	0			
4	15	237	6	7	5	2			
4	145	89	7	0	4	1			
4	100	117	7	4	5	1			
4	240	164	7	5	8	4			
4	117	216	7	8	7	6			
4	22	63	8	8	7	2			
4	29	336	9	3	4	8			
4	36	335	9	8	0	2			

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 0 3 7 4 3 II 9 2A

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MONO
COUNT

TOTAL 430 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	44						
1	36	IC TESTS FOR SIGNIFICANCE					
2	46	MONO IC	0.9979	SIGMAGE	-0.2	430	9205
3	53	DIGRAPHIC TESTS					
4	39	DIGRAPH IC	1.052	SIGMAGE	1.6	429	966
5	48	CUT A IC	1.035	SIGMAGE	0.5	215	238
6	42	CUT B IC	1.101	SIGMAGE	1.5	214	251
7	50	TRIGRAPHIC TESTS					
8	35	TRIGRAPH IC	1.19	SIGMAGE	1.8	428	109
9	37	CUT A IC	1.48	SIGMAGE	1.5	143	15
		CUT B IC	0.99	SIGMAGE	0.0	143	10
		CUT C IC	1.40	SIGMAGE	1.3	142	14

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	45	43	0.3	12	34	42	-1.3	23	39	41	-0.3
2	48	43	0.8	13	45	42	0.5	24	43	41	0.4
3	38	43	-0.8	14	34	42	-1.2	25	34	41	-1.1
4	42	43	-0.1	15	35	42	-1.1	26	36	40	-0.7
5	37	43	-0.9	16	31	41	-1.7	27	36	40	-0.7
6	45	42	0.4	17	38	41	-0.5	28	46	40	1.0
7	39	42	-0.5	18	44	41	0.5	29	40	40	0.0
8	34	42	-1.3	19	35	41	-1.0	30	49	40	1.5
9	39	42	-0.5	20	41	41	0.0	31	40	40	0.0
10	46	42	0.7	21	45	41	0.7	32	44	40	0.7
11	50	42	1.3	22	32	41	-1.5	33	32	40	-1.3

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4668	46010	1.015	1.22	27	327	3210	1.019	0.40
3	3114	30602	1.018	1.16	28	324	3090	1.049	0.97
4	2359	22898	1.030	1.60	29	281	2975	0.945	-0.95
5	2005	18275	1.097	4.46	30	405	2870	1.411	7.43
6	1645	15194	1.083	3.49	31	284	2769	1.026	0.50
7	1260	12993	0.970	-1.06	32	261	2678	0.975	-0.39
8	1141	11342	1.006	0.29	33	259	2587	1.001	0.05
9	1026	10058	1.020	0.73	34	236	2508	0.941	-0.97
10	1095	9030	1.213	6.88	35	268	2430	1.103	1.68
11	837	8190	1.022	0.72	36	259	2354	1.100	1.63
12	818	7490	1.092	2.73	37	242	2288	1.058	0.96
13	667	6897	0.967	-0.87	38	244	2222	1.098	1.60
14	624	6390	0.977	-0.57	39	213	2156	0.988	-0.16
15	701	5950	1.178	4.68	40	243	2100	1.157	2.39
16	562	5564	1.010	0.30	41	174	2045	0.851	-2.21
17	510	5225	0.976	-0.53	42	202	1990	1.015	0.26
18	542	4922	1.101	2.37	43	169	1935	0.873	-1.88
19	488	4653	1.049	1.17	44	195	1890	1.032	0.51
20	538	4410	1.220	4.88	45	216	1845	1.171	2.42
21	410	4190	0.979	-0.42	46	172	1800	0.956	-0.59
22	398	3990	0.997	-0.02	47	169	1755	0.963	-0.49
23	368	3807	0.967	-0.65	48	177	1712	1.034	0.50
24	398	3638	1.094	1.92	49	171	1676	1.020	0.31
25	392	3485	1.125	2.54	50	198	1640	1.207	2.93
26	321	3344	0.960	-0.72	51	162	1604	1.010	0.16

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	427	18	9.09	1.98	3.0
5	426	4	0.90	4.42	3.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	38	382	0 3 5 6	
6	121	60	0 3 6 0	1 4
4	63	124	0 5 7 5	
4	68	206	1 7 9 0	
4	57	367	2 2 2 3	
4	22	403	2 2 3 0	
4	6	319	2 3 5 0	
4	180	120	3 0 3 6	
5	122	137	3 6 0 1	4
5	182	77	3 6 0 1	4
4	186	220	4 0 5 7	
4	34	375	7 0 9 1	
4	324	34	7 2 3 5	
4	205	75	9 5 3 0	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT 9 4 7 8 6 II 9 2B

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MONO
COUNT

TOTAL 475 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	41							
1	48	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	62	MONO IC 1.0036 SIGMAGE	0.4	475			11299	11257
3	41	DIGRAPHIC TESTS						
4	53	DIGRAPH IC 0.971 SIGMAGE	-1.0	474		1089		1121
5	49	CUT A IC 1.051 SIGMAGE	0.9	237		294		280
6	53	CUT B IC 0.923 SIGMAGE	-1.3	237		258		280
7	38	TRIGRAPHIC TESTS						
8	40	TRIGRAPH IC 1.00 SIGMAGE	0.0	473		112		111.62
9	50	CUT A IC 1.21 SIGMAGE	0.7	158		15		12.40
		CUT B IC 1.29 SIGMAGE	1.0	158		16		12.40
		CUT C IC 1.55 SIGMAGE	1.9	157		19		12.24

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	46	47	-0.2	12	62	46	2.4	23	48	45	0.4
2	45	47	-0.4	13	36	46	-1.6	24	45	45	0.0
3	38	47	-1.4	14	40	46	-0.9	25	59	45	2.2
4	36	47	-1.7	15	46	46	0.0	26	37	45	-1.2
5	49	47	0.3	16	39	46	-1.1	27	52	45	1.1
6	43	47	-0.6	17	46	46	0.0	28	41	45	-0.6
7	50	47	0.5	18	56	46	1.6	29	45	45	0.1
8	52	47	0.8	19	39	46	-1.0	30	55	45	1.7
9	52	47	0.8	20	51	46	0.9	31	42	44	-0.4
10	58	47	1.8	21	41	45	-0.7	32	43	44	-0.2
11	37	46	-1.5	22	46	45	0.1	33	44	44	0.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	5670	56169	1.009	0.40	27	424	3944	1.075	1.49
3	3860	37367	1.033	1.86	28	371	3792	0.978	-0.55
4	2789	27966	0.997	-0.39	29	348	3656	0.952	-1.04
5	2507	22325	1.123	5.95	30	451	3525	1.279	5.50
6	1944	18565	1.047	1.94	31	352	3405	1.034	0.57
7	1595	15879	1.004	0.00	32	332	3290	1.009	0.10
8	1393	13865	1.005	0.04	33	331	3185	1.039	0.67
9	1307	12298	1.063	2.18	34	298	3081	0.967	-0.70
10	1314	11045	1.190	6.51	35	361	2990	1.207	3.65
11	947	10019	0.945	-1.95	36	308	2899	1.062	1.04
12	954	9165	1.041	1.18	37	267	2814	0.949	0.99
13	43	8442	0.999	-0.16	38	260	2736	0.950	-0.92
14	777	7821	0.993	-0.33	39	272	2658	1.023	0.32
15	829	7285	1.138	3.75	40	303	2585	1.172	2.86
16	696	6815	1.021	0.48	41	252	2519	1.000	-0.07
17	636	6399	0.994	-0.27	42	267	2453	1.088	1.43
18	672	6032	1.114	2.86	43	211	2387	0.884	-1.92
19	571	5700	1.002	-0.05	44	232	2330	0.996	-0.13
20	623	5405	1.153	3.73	45	273	2275	1.200	3.14
21	519	5137	1.010	0.14	46	240	2220	1.081	1.23
22	489	4893	0.999	-0.12	47	203	2165	0.938	-1.06
23	493	4670	1.056	1.20	48	220	2115	1.040	0.54
24	464	4465	1.039	0.77	49	209	2070	1.010	0.09
25	469	4275	1.097	2.05	50	227	2025	1.121	1.76
26	399	4104	0.972	-0.67	51	200	1980	1.010	0.09

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	472	14	11.11	1.26	0.9
5	471	1	1.10	0.90	-0.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	98	330	2	2	5	5
4	338	62	2	6	9	2
4	78	270	2	8	2	4
4	113	292	3	1	5	3
4	20	265	4	2	5	7
4	225	52	5	1	4	4
4	152	24	5	2	1	1
5	191	216	5	3	3	4
4	39	426	6	6	3	3
4	133	268	6	9	2	9
4	129	29	8	1	9	7
4	352	52	9	3	1	5
4	46	249	9	3	2	7

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROE ROY Date 1 September 1964

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DATA IDENT i q f n p II 10 1

for interpretation of this run call PROD 03 on x 3843

MONO
COUNT

TOTAL 490 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	13										
b	20	IC TESTS FOR SIGNIFICANCE									
c	8	MONO IC	1.0961	SIGMAGE	6.6	490			5051	4607	
d	18	DIGRAPHIC TESTS									
e	21	DIGRAPH IC	1.660	SIGMAGE	8.8	489			293	177	
f	22	CUT A IC	2.646	SIGMAGE	11.0	245			117	44	
g	14	CUT B IC	1.801	SIGMAGE	5.3	244			79	44	
h	18	TRIGRAPHIC TESTS									
i	15	TRIGRAPH IC	8.14	SIGMAGE	18.6	488			55	6.76	
j	15	CUT A IC	2.67	SIGMAGE	1.5	163			2	0.75	
k	23	CUT B IC	2.67	SIGMAGE	1.5	163			2	0.75	
l	19	CUT C IC	2.70	SIGMAGE	1.5	162			2	0.74	
m	13	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	19	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	17	1 20 21 -0.1 12 20 20 0.0 23 18 20 -0.4									
p	16	2 25 20 1.0 13 14 20 -1.4 24 23 20 0.8									
q	26	3 16 20 -1.0 14 20 20 0.0 25 19 20 -0.1									
r	27	4 15 20 -1.2 15 17 20 -0.7 26 17 19 -0.6									
s	25	5 22 20 0.4 16 18 20 -0.4 27 21 19 0.4									
t	12	6 15 20 -1.2 17 19 20 -0.2 28 26 19 1.5									
u	36	7 13 20 -1.7 18 27 20 1.6 29 24 19 1.1									
v	13	8 14 20 -1.4 19 16 20 -0.9 30 25 19 1.3									
w	30	9 22 20 0.4 20 32 20 2.8 31 24 19 1.1									
x	4	10 31 20 2.5 21 17 20 -0.6 32 30 19 2.5									
y	32	11 20 20 0.0 22 21 20 0.3 33 20 19 0.2									
z	14	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2703	59780	1.176	3.92	27	193	4203	1.194	1.27
3	1645	39772	1.075	-0.84	28	166	4046	1.067	-0.38
4	1339	29768	1.170	2.59	29	159	3896	1.061	-0.46
5	1145	23765	1.253	4.87	30	195	3760	1.348	3.02
6	858	19764	1.129	0.92	31	168	3630	1.203	1.28
7	671	16905	1.032	-1.66	32	157	3510	1.163	0.80
8	651	14762	1.147	1.22	33	126	3395	0.965	-1.57
9	575	13095	1.142	1.06	34	136	3290	1.075	-0.25
10	685	11760	1.514	9.20	35	147	3185	1.200	1.14
11	416	10670	1.014	-1.72	36	137	3094	1.151	0.61
12	416	9760	1.108	0.24	37	132	3003	1.143	0.52
13	392	8991	1.134	0.72	38	134	2916	1.195	1.09
14	348	8330	1.086	-0.18	39	115	2838	1.054	-0.46
15	343	7760	1.149	0.95	40	158	2760	1.488	4.31
16	330	7260	1.182	1.46	41	117	2684	1.133	0.37
17	277	6818	1.056	-0.68	42	103	2618	1.023	-0.73
18	278	6426	1.125	0.46	43	94	2552	0.958	-1.38
19	243	6075	1.040	-0.90	44	107	2486	1.119	0.23
20	330	5760	1.490	5.91	45	110	2425	1.179	0.83
21	216	5474	1.026	-1.05	46	92	2370	1.009	-0.87
22	225	5214	1.122	0.36	47	96	2315	1.078	-0.18
23	190	4977	0.993	-1.44	48	90	2260	1.035	-0.61
24	202	4760	1.103	0.10	49	89	2205	1.049	-0.42
25	209	4560	1.192	1.34	50	121	2160	1.456	3.24
26	216	4374	1.284	2.44	51	85	2115	1.045	-0.46

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	487	31	0.25	119.71	60.5
5	486	19	0.01	1916.68	367.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	183	260	c e i k
4	55	260	e b m t
12	151	310	f e g r y q p y u w f w
5	31	10	j u p y y
7	233	170	q b n w m w r
4	367	80	s j g x
8	289	130	s r q b i w k p
5	119	40	u w f w z
5	119	150	u w f w z
4	119	350	u w f w
5	159	110	u w f w z
4	269	200	u w f w

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT i h m e w II 10 3A
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 525 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	20	IC TESTS FOR SIGNIFICANCE									
c	40	MONO IC 1.3110	SIGMAGE	23.0	525				6936	5290	
d	39	DIGRAPHIC TESTS									
e	28	DIGRAPH IC 2.294	SIGMAGE	18.5	524				465	203	
f	21	CUT A IC 2.293	SIGMAGE	9.2	262				116	51	
g	20	CUT B IC 2.254	SIGMAGE	8.9	262				114	51	
h	50	TRIGRAPHIC TESTS									
i	31	TRIGRAPH IC 11.59	SIGMAGE	29.5	523				90	7.76	
j	0	CUT A IC 6.94	SIGMAGE	5.5	175				6	0.86	
k	20	CUT B IC 11.70	SIGMAGE	9.9	174				10	0.85	
l	31	CUT C IC 8.19	SIGMAGE	6.7	174				7	0.85	
m	22	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	13	1 14 26 -2.4 12 31 26 1.1 23 24 25 -0.2									
p	19	2 26 26 0.0 13 22 26 -0.7 24 16 25 -1.9									
q	24	3 24 26 -0.4 14 34 26 1.7 25 38 25 2.7									
r	7	4 22 26 -0.8 15 27 26 0.3 26 17 25 -1.6									
s	9	5 35 26 1.8 16 31 25 1.1 27 17 25 -1.6									
t	34	6 22 26 -0.8 17 21 25 -0.9 28 21 25 -0.8									
u	4	7 23 26 -0.6 18 28 25 0.5 29 19 25 -1.2									
v	15	8 20 26 -1.2 19 24 25 -0.3 30 29 25 0.9									
w	5	9 18 26 -1.6 20 35 25 2.0 31 28 25 0.7									
x	12	10 28 26 0.5 21 25 25 0.0 32 20 25 -1.0									
y	25	11 31 26 1.1 22 18 25 -1.5 33 26 25 0.3									
z	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3518	68644	1.332	1.09	27	208	4845	1.116	-2.73
3	2231	45675	1.270	-1.76	28	226	4662	1.260	-0.71
4	1693	34191	1.287	-0.89	29	234	4491	1.355	0.57
5	1740	27300	1.657	11.42	30	276	4335	1.655	4.47
6	1130	22707	1.294	-0.51	31	228	4184	1.417	1.38
7	984	19425	1.317	0.17	32	193	4048	1.240	-0.92
8	812	16965	1.244	-1.74	33	201	3915	1.335	0.31
9	700	15051	1.209	-2.55	34	169	3795	1.158	-1.84
10	852	13520	1.638	7.52	35	238	3675	1.684	4.48
11	637	12267	1.350	0.86	36	157	3570	1.143	-2.02
12	549	11223	1.272	-0.82	37	173	3465	1.298	-0.16
13	508	10340	1.277	-0.68	38	156	3367	1.205	-1.27
14	497	9583	1.348	0.74	39	142	3276	1.127	-2.02
15	542	8925	1.579	5.09	40	187	3185	1.527	2.38
16	412	8352	1.283	-0.50	41	201	3102	1.685	4.11
17	385	7845	1.276	-0.63	42	135	3024	1.161	-1.65
18	346	7395	1.216	-1.62	43	163	2946	1.439	1.41
19	334	6993	1.242	-1.17	44	144	2871	1.304	-0.08
20	393	6630	1.541	3.68	45	166	2805	1.539	2.51
21	295	6300	1.217	-1.50	46	146	2739	1.386	0.83
22	307	6003	1.330	0.30	47	140	2673	1.362	0.51
23	292	5731	1.325	0.21	48	121	2610	1.205	-1.06
24	252	5481	1.195	-1.74	49	132	2555	1.343	0.32
25	342	5250	1.694	5.75	50	142	2500	1.477	1.66
26	250	5040	1.290	-0.29	51	116	2445	1.234	-0.77

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	522	35	0.29	117.62	63.7
5	521	17	0.02	1491.09	306.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	321	30	b p h b l
4	211	25	d v h i
4	87	430	e d t m
4	21	475	f e k b
4	250	85	h l k h
4	187	320	h q h g
5	298	45	h t l y n
4	67	90	h v f b
4	157	115	h v f b
5	1	205	i h m e w
8	108	305	i t e d h r t w
5	56	125	k m q g i
4	302	155	n o c d
5	378	80	o c d c d
5	73	435	q h g l c
4	406	70	v t h t
10	63	205	y r l i h v f b c y
5	96	120	y t d t n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT c p o o d II 10 3B
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 525 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	20									
b	20	IC TESTS FOR SIGNIFICANCE								
c	38	MONO IC	1.2936	SIGMAGE	21.8	525		6844	5290	
d	35	DIGRAPHIC TESTS								
e	20	DIGRAPH IC	1.889	SIGMAGE	12.7	524		383	203	
f	33	CUT A IC	1.621	SIGMAGE	4.4	262		82	51	
g	34	CUT B IC	2.116	SIGMAGE	8.0	262		107	51	
h	15	TRIGRAPHIC TESTS								
i	2	TRIGRAPH IC	5.28	SIGMAGE	11.9	523		41	7.76	
j	8	CUT A IC	4.62	SIGMAGE	3.4	175		4	0.86	
k	18	CUT B IC	8.19	SIGMAGE	6.7	174		7	0.85	
l	10	CUT C IC	3.51	SIGMAGE	2.3	174		3	0.85	
m	32	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	8	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	27	1 27 26 0.2 12 22 26 -0.7 23 25 25 0.0								
p	8	2 21 26 -1.0 13 29 26 0.7 24 22 25 -0.6								
q	14	3 17 26 -1.8 14 25 26 -0.1 25 39 25 2.9								
r	8	4 18 26 -1.6 15 17 26 -1.7 26 25 25 0.0								
s	35	5 22 26 -0.8 16 30 25 0.9 27 31 25 1.3								
t	22	6 30 26 0.8 17 13 25 -2.5 28 21 25 -0.8								
u	30	7 21 26 -1.0 18 25 25 -0.1 29 31 25 1.3								
v	16	8 23 26 -0.6 19 26 25 0.1 30 28 25 0.7								
w	12	9 26 26 0.0 20 25 25 -0.1 31 22 25 -0.6								
x	4	10 37 26 2.3 21 22 25 -0.7 32 26 25 0.3								
y	10	11 28 26 0.5 22 22 25 -0.6 33 27 25 0.5								
z	46	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3464	68644	1.312	0.94	27	258	4845	1.385	1.27
3	2281	45675	1.298	0.17	28	223	4662	1.244	-0.70
4	1712	34191	1.302	0.30	29	253	4491	1.465	2.22
5	1605	27300	1.529	7.76	30	257	4335	1.541	3.21
6	1131	22707	1.295	0.03	31	195	4184	1.212	-1.07
7	903	19425	1.209	-2.38	32	219	4048	1.407	1.47
8	875	16965	1.341	1.22	33	206	3915	1.368	0.96
9	799	15051	1.380	2.15	34	174	3795	1.192	-1.22
10	786	13520	1.512	5.01	35	190	3675	1.344	0.60
11	628	12267	1.331	0.81	36	184	3570	1.340	0.55
12	561	11223	1.300	0.13	37	153	3465	1.148	-1.75
13	518	10340	1.303	0.18	38	160	3367	1.236	-0.70
14	433	9583	1.175	-2.38	39	156	3276	1.238	-0.62
15	512	8925	1.492	3.76	40	186	3185	1.518	2.46
16	449	8352	1.398	1.87	41	155	3102	1.299	0.06
17	362	7845	1.200	-1.69	42	155	3024	1.333	0.43
18	381	7395	1.340	0.78	43	141	2946	1.244	-0.55
19	346	6993	1.286	-0.14	44	141	2871	1.277	-0.19
20	374	6630	1.467	2.77	45	156	2805	1.446	1.67
21	316	6300	1.304	0.16	46	123	2739	1.168	-1.39
22	298	6003	1.291	-0.05	47	121	2673	1.177	-1.17
23	269	5731	1.220	-1.11	48	123	2610	1.225	-0.69
24	263	5481	1.248	-0.69	49	109	2555	1.109	-1.85
25	342	5250	1.694	6.00	50	149	2500	1.550	2.56
26	244	5040	1.259	-0.49	51	117	2445	1.244	-0.50

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	522	17	0.29	57.13	30.7
5	521	7	0.02	613.98	126.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	321	30	b f g e s
4	406	70	b z z l
6	1	205	c p o o d u
5	111	305	c p z z d
5	96	120	d u q z g
4	250	85	f f z z
4	77	435	g c i s
4	211	25	u w z v
5	66	205	v w h u t
5	56	125	z m g d s

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT n m g y o II 10 9
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 300 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	19										
b	14	IC TESTS FOR SIGNIFICANCE									
c	12	MONO IC	1.1530	SIGMAGE	6.4	300			1989	1725	
d	10	DIGRAPHIC TESTS									
e	9	DIGRAPH IC	1.517	SIGMAGE	4.2	299			-00	66	
f	21	CUT A IC	1.875	SIGMAGE	3.6	150			31	17	
g	21	CUT B IC	2.085	SIGMAGE	4.4	149			34	16	
h	14	TRIGRAPHIC TESTS									
i	5	TRIGRAPH IC	8.35	SIGMAGE	11.7	298			21	2.51	
j	4	CUT A IC	25.00	SIGMAGE	12.8	100			7	0.28	
k	5	CUT B IC	21.82	SIGMAGE	11.0	99			6	0.27	
l	12	CUT C IC	18.18	SIGMAGE	9.1	99			5	0.27	
m	19	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	16	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	17	1 8 13 -1.5 12 25 13 3.5 23 14 12 0.5									
p	14	2 12 13 -0.3 13 16 13 1.0 24 24 12 3.5									
q	6	3 13 13 0.0 14 11 13 -0.5 25 11 12 -0.3									
r	12	4 14 13 0.3 15 4 13 -2.5 26 11 12 -0.3									
s	4	5 14 13 0.3 16 14 12 0.4 27 15 12 0.9									
t	6	6 10 13 -0.8 17 9 12 -1.0 28 10 12 -0.6									
u	6	7 16 13 0.9 18 16 12 1.0 29 9 12 -0.9									
v	5	8 16 13 0.9 19 10 12 -0.7 30 9 12 -0.9									
w	9	9 11 13 -0.5 20 12 12 -0.1 31 9 12 -0.8									
x	6	10 15 13 0.6 21 10 12 -0.7 32 13 12 0.4									
y	20	11 13 13 0.1 22 12 12 -0.1 33 5 12 -2.0									
z	14	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	989	22350	1.151	-0.06	27	61	1518	1.045	-0.86
3	707	14850	1.238	2.04	28	70	1460	1.247	0.75
4	543	11100	1.272	2.50	29	55	1405	1.018	-1.08
5	396	8850	1.163	0.19	30	82	1350	1.579	2.98
6	418	7350	1.479	5.54	31	48	1305	0.956	-1.38
7	262	6279	1.085	-1.09	32	62	1260	1.279	0.88
8	269	5476	1.277	1.86	33	44	1215	0.942	-1.48
9	220	4851	1.179	0.36	34	52	1176	1.150	-0.02
10	191	4350	1.142	-0.14	35	47	1140	1.072	-0.57
11	159	3942	1.049	-1.35	36	66	1104	1.554	2.81
12	247	3600	1.784	7.57	37	50	1068	1.217	0.45
13	157	3312	1.232	0.95	38	45	1036	1.129	-0.14
14	129	3066	1.094	-0.65	39	45	1008	1.161	0.05
15	133	2850	1.213	0.66	40	48	980	1.273	0.72
16	114	2664	1.113	-0.40	41	42	952	1.147	-0.04
17	106	2499	1.103	-0.50	42	55	924	1.548	2.37
18	124	2352	1.371	2.18	43	39	897	1.130	-0.14
19	98	2220	1.148	-0.05	44	32	876	0.950	-1.22
20	101	2100	1.250	0.87	45	36	855	1.095	-0.35
21	91	1995	1.186	0.30	46	32	834	0.998	-0.93
22	71	1898	0.973	-1.62	47	49	813	1.567	2.48
23	76	1807	1.094	-0.53	48	43	792	1.412	1.55
24	130	1728	1.956	6.42	49	28	771	0.944	-1.25
25	65	1650	1.024	-1.03	50	26	750	0.901	-1.51
26	72	1584	1.182	0.23	51	32	735	1.132	-0.11

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	15	0.09	155.93	48.1
5	296	14	0.01	3808.13	444.9

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
18	130	120	f a h m p d t b p g l w m h f m o y

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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TOTAL 622 DITS 0

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	619	14	0.41	33.45	21.0
5	618	6	0.02	374.06	47.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	266	107	c g p y u
6	176	262	g o v y r z
4	12	71	i j u t
5	45	244	p q e h u
4	261	103	t i i p
4	116	14	v g a b
6	101	288	z b x a g s
4	170	250	z x g y

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b y d e l III 1 9
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 415 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	11										
b	18	IC TESTS FOR SIGNIFICANCE									
c	16	MONO IC 1.0206 SIGMAGE	1.2	415					3372	3304	
d	21	DIGRAPHIC TESTS									
e	20	DIGRAPH IC 1.431 SIGMAGE	4.9	414					181	126	
f	21	CUT A IC 1.680 SIGMAGE	3.8	207					53	32	
g	17	CUT B IC 1.015 SIGMAGE	0.1	207					32	32	
h	21	TRIGRAPHIC TESTS									
i	16	TRIGRAPH IC 5.37 SIGMAGE	9.6	413					26	4.84	
j	19	CUT A IC 3.70 SIGMAGE	2.0	138					2	0.54	
k	19	CUT B IC 1.85 SIGMAGE	0.6	138					1	0.54	
l	16	CUT C IC 1.89 SIGMAGE	0.7	137					1	0.53	
m	21	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	18	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	4	1 14 16 -0.5 12 8 16 -2.0 23 24 15 2.3									
p	17	2 7 16 -2.3 13 18 16 0.6 24 17 15 0.5									
q	17	3 15 16 -0.3 14 13 16 -0.7 25 12 15 -0.8									
r	15	4 10 16 -1.5 15 15 16 -0.2 26 17 15 0.5									
s	23	5 14 16 -0.5 16 17 16 0.4 27 12 15 -0.8									
t	10	6 20 16 1.0 17 12 16 -0.9 28 16 15 0.2									
u	8	7 15 16 -0.2 18 18 15 0.7 29 16 15 0.2									
v	13	8 12 16 -1.0 19 16 15 0.1 30 18 15 0.8									
w	17	9 13 16 -0.7 20 9 15 -1.7 31 11 15 -1.0									
x	11	10 22 16 1.6 21 15 15 -0.1 32 18 15 0.8									
y	10	11 15 16 -0.2 22 15 15 -0.1 33 18 15 0.8									
z	16	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1655	42849	1.004	-0.70	27	105	2985	0.915	-1.17
3	1078	28497	0.984	-1.26	28	118	2870	1.069	0.53
4	811	21321	0.989	-0.93	29	95	2765	0.893	-1.41
5	676	17015	1.033	0.31	30	99	2665	0.966	-0.55
6	532	14145	0.978	-1.03	31	85	2574	0.859	-1.62
7	474	12095	1.019	-0.04	32	105	2484	1.099	0.78
8	420	10557	1.034	0.27	33	109	2406	1.178	1.57
9	354	9361	0.983	-0.72	34	115	2328	1.284	2.63
10	324	8405	1.002	-0.34	35	92	2255	1.061	0.40
11	295	7622	1.006	-0.26	36	68	2189	0.808	-1.92
12	248	6970	0.925	-1.63	37	93	2123	1.139	1.06
13	237	6417	0.960	-0.98	38	75	2060	0.947	-0.67
14	237	5945	1.037	0.24	39	71	2005	0.921	-0.90
15	207	5535	0.972	-0.74	40	85	1950	1.133	1.01
16	212	5175	1.065	0.62	41	59	1895	0.809	-1.91
17	196	4860	1.049	0.39	42	66	1845	0.930	-0.82
18	171	4577	0.971	-0.70	43	61	1800	0.881	-1.26
19	180	4326	1.082	0.79	44	61	1755	0.904	-0.94
20	153	4100	0.970	-0.66	45	66	1710	1.004	-0.14
21	144	3895	0.961	-0.78	46	79	1665	1.234	1.70
22	141	3708	0.989	-0.38	47	54	1628	0.862	-1.27
23	181	3537	1.331	3.72	48	58	1592	0.947	-0.59
24	133	3383	1.022	0.01	49	50	1556	0.835	-1.49
25	137	3240	1.099	0.86	50	65	1520	1.112	0.73
26	105	3105	0.879	-1.56	51	58	1484	1.016	-0.04

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	412	12	0.18	64.77	27.5
5	411	5	0.01	705.21	59.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	188	67	a k e w
6	1	124	b y d e l v
5	177	119	f r j t v
5	95	236	g i k o h
5	53	171	l m l z e
4	134	50	n s s c
4	221	139	p m g l

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g v f g o III 1 10
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 280 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	5										
b	17	IC TESTS FOR SIGNIFICANCE									
c	16	MONO IC 1.1383 SIGMAGE	5.4	280					1710	1502	
d	4	DIGRAPHIC TESTS									
e	12	DIGRAPH IC 1.517 SIGMAGE	3.9	279					87	57	
f	13	CUT A IC 1.598 SIGMAGE	2.3	140					23	14	
g	22	CUT B IC 1.057 SIGMAGE	0.2	139					15	14	
h	10	TRIGRAPHIC TESTS									
i	6	TRIGRAPH IC 1.83 SIGMAGE	1.2	278					4	2.19	
j	4	CUT A IC 0.00 SIGMAGE	-0.5	93					0	0.24	
k	14	CUT B IC 0.00 SIGMAGE	-0.5	93					0	0.24	
l	5	CUT C IC 4.17 SIGMAGE	1.6	92					1	0.24	
m	7	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	9	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	11	1 18 12 1.7 12 15 12 1.0 23 6 11 -1.6									
p	15	2 8 12 -1.2 13 11 12 -0.2 24 9 11 -0.7									
q	11	3 11 12 -0.3 14 14 12 0.7 25 7 11 -1.3									
r	7	4 12 12 0.0 15 8 12 -1.1 26 10 11 -0.4									
s	8	5 17 12 1.4 16 10 12 -0.5 27 5 11 -1.9									
t	14	6 11 12 -0.3 17 8 12 -1.1 28 13 11 0.6									
u	8	7 16 12 1.2 18 16 12 1.3 29 16 11 1.5									
v	22	8 15 12 0.9 19 10 11 -0.4 30 9 11 -0.6									
w	11	9 14 12 0.6 20 8 11 -1.0 31 8 11 -0.9									
x	17	10 11 12 -0.3 21 13 11 0.5 32 8 11 -0.9									
y	4	11 13 12 0.3 22 11 11 -0.1 33 7 11 -1.2									
z	8										

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	835	19460	1.116	-0.62	27	61	1315	1.206	0.48
3	561	12927	1.128	-0.23	28	50	1260	1.032	-0.74
4	416	9660	1.120	-0.36	29	57	1215	1.220	0.57
5	357	7700	1.205	1.21	30	47	1170	1.044	-0.66
6	268	6394	1.090	-0.77	31	44	1125	1.017	-0.85
7	241	5460	1.148	0.15	32	53	1088	1.267	0.90
8	218	4760	1.191	0.74	33	35	1052	0.865	-1.91
9	197	4216	1.215	1.00	34	48	1016	1.228	0.54
10	162	3780	1.114	-0.29	35	48	980	1.273	0.81
11	148	3425	1.124	-0.17	36	43	952	1.174	0.22
12	139	3128	1.155	0.19	37	38	924	1.069	-0.41
13	108	2877	0.976	-1.78	38	36	896	1.045	-0.56
14	112	2660	1.095	-0.43	39	28	868	0.839	-1.79
15	110	2475	1.156	0.18	40	49	840	1.517	2.27
16	105	2312	1.181	0.43	41	33	819	1.048	-0.54
17	97	2168	1.163	0.23	42	29	798	0.945	-1.16
18	100	2040	1.275	1.23	43	28	777	0.937	-1.21
19	76	1925	1.026	-1.01	44	28	756	0.963	-1.05
20	78	1820	1.114	-0.22	45	39	735	1.380	1.21
21	71	1729	1.068	-0.56	46	23	714	0.838	-1.50
22	67	1644	1.060	-0.62	47	20	695	0.748	-1.95
23	68	1566	1.129	-0.07	48	34	680	1.300	0.81
24	69	1496	1.199	0.49	49	27	665	1.056	-0.41
25	67	1430	1.218	0.64	50	28	650	1.120	-0.09
26	53	1370	1.006	-0.92	51	37	635	1.515	1.89

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	277	1	0.09	11.95	3.2
5	276	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	22	155	w c p g

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT o d q y c III 1 11a
 for interpretation of this run call F 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 150 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	3									
b	4	IC TESTS FOR SIGNIFICANCE								
c	6	MONO IC 1.0028	SIGMAGE	0.0	150			431	429	
d	9	DIGRAPHIC TESTS								
e	6	DIGRAPH IC	0.797	SIGMAGE	-0.8	149		13	16	
f	4	CUT A IC	0.974	SIGMAGE	-0.1	75		4	4	
g	5	CUT B IC	0.250	SIGMAGE	-1.5	74		1	4	
h	4	TRIGRAPHIC TESTS								
i	7	TRIGRAPH IC	1.61	SIGMAGE	0.5	148		1	0.62	
j	6	CUT A IC	0.00	SIGMAGE	-0.3	50		0	0.07	
k	0	CUT B IC	0.00	SIGMAGE	-0.3	49		0	0.07	
l	7	CUT C IC	14.29	SIGMAGE	3.5	49		1	0.07	
m	7	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	5	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	7	1 5 6 -0.3 12 2 5 -1.5 23 3 5 -0.9								
p	2	2 3 6 -1.2 13 8 5 1.2 24 2 5 -1.3								
q	5	3 8 6 1.0 14 5 5 -0.1 25 5 5 0.1								
r	6	4 3 6 -1.2 15 5 5 -0.1 26 4 5 -0.4								
s	7	5 8 6 1.0 16 1 5 -1.9 27 6 5 0.6								
t	10	6 6 6 0.2 17 11 5 2.6 28 4 5 -0.4								
u	3	7 11 6 2.3 18 6 5 0.4 29 3 5 -0.8								
v	6	8 7 6 0.6 19 1 5 -1.9 30 3 5 -0.8								
w	6	9 7 5 0.7 20 3 5 -0.9 31 3 5 -0.8								
x	5	10 7 5 0.7 21 5 5 0.0 32 5 5 0.2								
y	10	11 7 5 0.7 22 10 5 2.3 33 3 5 -0.7								
z	10	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	195	5550	0.914	-1.34	27	15	345	1.130	0.51
3	146	3675	1.033	0.36	28	7	330	0.552	-1.80
4	85	2738	0.807	-2.16	29	11	315	0.908	-0.38
5	87	2175	1.040	0.33	30	13	300	1.127	0.37
6	67	1800	0.968	-0.32	31	9	290	0.807	-0.59
7	70	1533	1.187	1.47	32	8	280	0.743	-0.78
8	43	1332	0.839	-1.15	33	9	270	0.867	-0.41
9	47	1176	1.039	0.25	34	10	260	1.000	-0.01
10	41	1050	1.015	0.08	35	13	250	1.352	1.05
11	44	949	1.205	1.21	36	7	240	0.758	-0.74
12	26	864	0.782	-1.33	37	8	230	0.904	-0.30
13	36	792	1.182	1.07	38	5	222	0.586	-1.25
14	24	730	0.855	-0.74	39	11	216	1.324	0.96
15	25	675	0.963	-0.20	40	9	210	1.114	0.33
16	19	630	0.784	-1.10	41	5	204	0.637	-1.10
17	29	588	1.282	1.40	42	9	198	1.182	0.54
18	27	552	1.272	1.35	43	7	192	0.948	-0.17
19	11	518	0.552	-2.26	44	8	186	1.118	0.35
20	18	490	0.955	-0.19	45	4	180	0.578	-1.28
21	22	462	1.238	0.94	46	7	174	1.046	0.13
22	22	438	1.306	1.21	47	4	168	0.619	-1.15
23	17	417	1.060	0.23	48	6	162	0.963	-0.08
24	13	396	0.854	-0.60	49	9	156	1.500	0.99
25	17	375	1.179	0.70	50	7	150	1.213	0.42
26	12	360	0.867	-0.54	51	8	147	1.415	0.82

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	147	0	0.03	0.00	-0.2
5	146	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT q o o e f III 1 11b
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 150 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	4									
b	7	IC TESTS FOR SIGNIFICANCE								
c	2	MONO IC	1.0772	SIGMAGE	1.6	150		463	429	
d	3	DIGRAPHIC TESTS								
e	8	DIGRAPH IC	1.165	SIGMAGE	0.7	149		19	16	
f	8	CUT A IC	1.218	SIGMAGE	0.4	75		5	4	
g	3	CUT B IC	1.001	SIGMAGE	0.0	74		4	4	
h	5	TRIGRAPHIC TESTS								
i	3	TRIGRAPH IC	1.61	SIGMAGE	0.5	148		1	0.62	
j	4	CUT A IC	0.00	SIGMAGE	-0.3	50		0	0.07	
k	3	CUT B IC	0.00	SIGMAGE	-0.3	49		0	0.07	
l	7	CUT C IC	0.00	SIGMAGE	-0.3	49		0	0.07	
m	6	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	5	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	9	1 7 6 0.4 12 5 6 -0.3 23 4 5 -0.5								
p	3	2 3 6 -1.3 13 5 6 -0.3 24 4 5 -0.5								
q	15	3 12 6 2.5 14 5 6 -0.2 25 5 5 -0.1								
r	9	4 6 6 0.0 15 4 6 -0.7 26 2 5 -1.4								
s	6	5 10 6 1.7 16 8 5 1.1 27 6 5 0.4								
t	5	6 5 6 -0.4 17 3 5 -1.1 28 2 5 -1.4								
u	4	7 6 6 0.1 18 6 5 0.3 29 2 5 -1.4								
v	3	8 6 6 0.1 19 5 5 -0.2 30 5 5 0.0								
w	7	9 5 6 -0.3 20 4 5 -0.6 31 6 5 0.5								
x	4	10 4 6 -0.7 21 5 5 -0.1 32 5 5 0.1								
y	8	11 5 6 -0.3 22 6 5 0.3 33 5 5 0.1								
z	9	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	211	5550	0.988	-1.34	27	21	345	1.583	2.02
3	163	3675	1.153	0.91	28	7	330	0.552	-2.10
4	95	2738	0.902	-1.93	29	10	315	0.825	-1.01
5	87	2175	1.040	-0.33	30	10	300	0.867	-0.63
6	71	1800	1.026	-0.46	31	14	290	1.255	0.53
7	69	1533	1.170	0.74	32	8	280	0.743	-1.00
8	44	1332	0.859	-1.53	33	10	270	0.963	-0.34
9	50	1176	1.105	0.20	34	10	260	1.000	-0.23
10	36	1050	0.891	-1.30	35	16	250	1.664	1.76
11	40	949	1.096	0.11	36	11	240	1.192	0.35
12	29	864	0.873	-1.22	37	5	230	0.565	-1.54
13	35	792	1.149	0.43	38	12	222	1.405	0.98
14	26	730	0.926	-0.76	39	16	216	1.926	2.55
15	24	675	0.924	-0.77	40	6	210	0.743	-1.00
16	21	630	0.867	-1.05	41	10	204	1.275	0.59
17	20	588	0.884	-0.97	42	6	198	0.788	-0.87
18	23	552	1.083	0.03	43	8	192	1.083	0.02
19	27	518	1.355	1.39	44	9	186	1.258	0.54
20	14	490	0.743	-1.34	45	6	180	0.867	-0.63
21	14	462	0.788	-1.16	46	10	174	1.494	1.25
22	18	438	1.068	-0.04	47	11	168	1.702	1.88
23	20	417	1.247	0.68	48	4	162	0.642	-0.87
24	12	396	0.788	-1.16	49	10	156	1.667	1.18
25	14	375	0.971	-0.42	50	5	150	0.867	-0.42
26	11	360	0.794	-1.13	51	4	147	0.707	-0.74

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	147	0	0.03	0.00	-0.2
5	146	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

134

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t g v c x III 1 12
 for interpretation of this run call P 1 on x 4040

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 828 DITS 0

						HITS OBSERVED	HITS EXPECTED
a	30						
b	28	IC TESTS FOR SIGNIFICANCE		TOTAL			
c	38	MONO IC 1.0028 SIGMAGE	0.3	828	13205	13168	
d	29	DIGRAPHIC TESTS					
e	30	DIGRAPH IC 1.025 SIGMAGE	0.6	827	518	505	
f	42	CUT A IC 1.139 SIGMAGE	1.6	414	144	126	
g	40	CUT B IC 0.961 SIGMAGE	-0.4	413	121	126	
h	26	TRIGRAPHIC TESTS					
i	26	TRIGRAPH IC 1.03 SIGMAGE	0.1	826	20	19.39	
j	33	CUT A IC 0.93 SIGMAGE	-0.1	276	2	2.16	
k	35	CUT B IC 0.47 SIGMAGE	-0.8	275	1	2.14	
l	44	CUT C IC 2.34 SIGMAGE	2.0	275	5	2.14	
m	24	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	33	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE					
o	25	1 22 32 -1.8 12 29 32 -0.5 23 31 31 -0.1					
p	34	2 23 32 -1.7 13 24 32 -1.4 24 32 31 0.1					
q	29	3 44 32 2.1 14 22 32 -1.8 25 20 31 -2.1					
r	27	4 40 32 1.4 15 26 32 -1.0 26 22 31 -1.7					
s	28	5 41 32 1.6 16 22 32 -1.8 27 26 31 -1.0					
t	42	6 38 32 1.1 17 34 32 0.4 28 28 31 -0.6					
u	22	7 35 32 0.5 18 34 32 0.4 29 22 31 -1.7					
v	33	8 39 32 1.3 19 30 32 -0.3 30 16 31 -2.8					
w	37	9 40 32 1.5 20 26 32 -1.0 31 21 31 -1.8					
x	33	10 34 32 0.4 21 22 31 -1.7 32 16 31 -2.8					
y	32	11 37 32 0.9 22 29 31 -0.4 33 18 31 -2.4					
z	28	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	6642	170982	1.010	0.58	27	456	12285	0.965	-0.84
3	4418	113850	1.009	0.41	28	462	11832	1.015	0.26
4	3326	85284	1.014	0.64	29	459	11410	1.046	0.90
5	2657	68145	1.014	0.57	30	416	11016	0.982	-0.44
6	2234	56718	1.024	1.01	31	385	10647	0.940	-1.32
7	1824	48557	0.977	-1.14	32	407	10300	1.027	0.48
8	1706	42436	1.045	1.72	33	350	9975	0.912	-1.82
9	1439	37674	0.993	-0.39	34	355	9672	0.954	-0.98
10	1297	33866	0.996	-0.26	35	356	9384	0.986	-0.32
11	1164	30750	0.984	-0.67	36	380	9108	1.085	1.56
12	1103	28152	1.019	0.54	37	351	8855	1.031	0.53
13	1010	25956	1.012	0.29	38	315	8610	0.951	-0.99
14	902	24072	0.974	-0.90	39	329	8379	1.021	0.32
15	855	22440	0.991	-0.36	40	325	8160	1.036	0.59
16	818	21012	1.012	0.26	41	384	7950	1.256	4.55
17	773	19752	1.018	0.42	42	299	7752	1.003	0.00
18	751	18630	1.048	1.22	43	248	7562	0.853	-2.55
19	677	17630	0.998	-0.14	44	261	7380	0.920	-1.41
20	636	16728	0.989	-0.36	45	253	7209	0.912	-1.55
21	611	15912	0.998	-0.13	46	289	7038	1.068	1.11
22	551	15170	0.944	-1.48	47	273	6885	1.031	0.48
23	557	14490	0.999	-0.10	48	258	6732	0.996	-0.11
24	553	13872	1.036	0.79	49	269	6584	1.062	0.94
25	526	13299	1.028	0.58	50	252	6448	1.016	0.21
26	483	12772	0.983	-0.46	51	250	6312	1.030	0.43

POLYGRAPHIC HITS AND IC
 LENGTH TOTAL OBSERVED EXPECTED IC SIGMAGE
 4 825 0 0.75 0.00 -0.9
 5 824 0 0.03 0.00 -0.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t r x p a III 3 2
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 675 DITS 0

								HITS OBSERVED	HITS EXPECTED
a	26								
b	27	IC TESTS FOR SIGNIFICANCE							
c	30	MONO IC	0.9960	SIGMA	-0.3	675	8714	8749	
d	27	DIGRAPHIC TESTS							
e	17	DIGRAPH IC	1.732	SIGMA	13.4	674	581	336	
f	25	CUT A IC	1.839	SIGMA	7.7	337	154	84	
g	25	CUT B IC	1.361	SIGMA	3.3	337	114	84	
h	18	TRIGRAPHIC TESTS							
i	25	TRIGRAPH IC	5.28	SIGMA	15.4	673	68	12.87	
j	19	CUT A IC	6.99	SIGMA	7.2	225	10	1.43	
k	24	CUT B IC	3.52	SIGMA	3.0	224	5	1.42	
l	23	CUT C IC	5.63	SIGMA	5.5	224	8	1.42	
m	33	LOCAL ROUGHNESS OFFSETS 1 TO 33							
n	21	OFF OBS EXP SIGMA OFF OBS EXP SIGMA OFF OBS EXP SIGMA							
o	34	1 50 26 4.9 12 24 25 -0.2 23 28 25 0.7							
p	34	2 26 26 0.1 13 33 25 1.6 24 26 25 0.3							
q	19	3 29 26 0.7 14 26 25 0.2 25 21 25 -0.8							
r	24	4 33 25 1.5 15 34 25 1.8 26 18 25 -1.4							
s	28	5 28 25 0.5 16 23 25 -0.4 27 15 25 -2.0							
t	27	6 29 25 0.7 17 31 25 1.2 28 27 25 0.5							
u	30	7 29 25 0.7 18 21 25 -0.8 29 28 25 0.7							
v	30	8 24 25 -0.3 19 23 25 -0.4 30 33 25 1.7							
w	27	9 30 25 1.0 20 20 25 -1.0 31 22 24 -0.5							
x	33	10 20 25 -1.1 21 31 25 1.3 32 27 24 0.5							
y	26	11 20 25 -1.1 22 22 25 -0.6 33 26 24 0.3							
z	23	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W							

W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	4337	113569	0.993	-0.20	27	263	8100	0.844	-2.74
3	2835	75600	0.975	-1.16	28	317	7800	1.057	1.10
4	2185	56616	1.003	0.34	29	277	7521	0.958	-0.65
5	1669	45225	0.960	-1.55	30	297	7260	1.064	1.16
6	1446	37632	0.999	0.12	31	248	7014	0.919	-1.31
7	1262	32208	1.019	0.83	32	287	6783	1.100	1.66
8	1107	28140	1.023	0.92	33	258	6570	1.021	0.40
9	877	24975	0.913	-2.66	34	249	6365	1.017	0.34
10	823	22445	0.953	-1.29	35	234	6175	0.985	-0.18
11	773	20374	0.986	-0.29	36	237	5994	1.028	0.51
12	732	18648	1.021	0.68	37	198	5823	0.884	-1.68
13	652	17187	0.986	-0.26	38	225	5661	1.033	0.56
14	666	15936	1.087	2.28	39	228	5508	1.076	1.20
15	568	14850	0.994	-0.05	40	216	5360	1.048	0.78
16	540	13902	1.010	0.34	41	207	5224	1.030	0.48
17	524	13065	1.043	1.08	42	199	5088	1.017	0.29
18	451	12321	0.952	-0.97	43	210	4965	1.100	1.46
19	455	11655	1.015	0.42	44	182	4845	0.977	-0.27
20	413	11055	0.971	-0.53	45	144	4725	0.792	-2.86
21	384	10512	0.950	-0.97	46	164	4620	0.923	-1.02
22	371	10020	0.963	-0.66	47	159	4515	0.916	-1.04
23	353	9570	0.959	-0.74	48	172	4410	1.014	0.23
24	365	9156	1.036	0.76	49	169	4316	1.018	0.29
25	318	8775	0.942	-1.03	50	157	4225	0.966	-0.39
26	319	8425	0.984	-0.22	51	135	4134	0.849	-1.91

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	672	20	0.50	40.54	27.8
5	671	12	0.02	633.96	87.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	393	232	o s m m
4	63	468	p i s d
7	197	279	p o u y g h f
4	141	489	r l c f
4	108	314	s v k t
4	133	79	w z h z
13	118	187	x b u k w d z w u b u m a
4	216	120	x s f f

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b f r j v III 3 3
 for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 500 DITS 0

							HITS	HITS
							OBSERVED	EXPECTED
a	24							
b	19	IC TESTS FOR SIGNIFICANCE						
c	14	MONO IC	0.9962	SIGMAGE	-0.2	500	4780	4798
d	15	DIGRAPHIC TESTS						
e	23	DIGRAPH IC	1.045	SIGMAGE	0.6	499	192	184
f	19	CUT A IC	1.216	SIGMAGE	1.5	250	56	46
g	19	CUT B IC	1.117	SIGMAGE	0.8	249	51	46
h	21	TRIGRAPHIC TESTS						
i	18	TRIGRAPH IC	1.42	SIGMAGE	1.1	498	10	7.04
j	24	CUT A IC	1.28	SIGMAGE	0.2	166	1	0.78
k	23	CUT B IC	0.00	SIGMAGE	-0.9	166	0	0.78
l	14	CUT C IC	0.00	SIGMAGE	-0.9	166	0	0.78
m	19	LOCAL ROUGHNESS OFFSETS 1 TO 35						
n	14	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE						
o	17	1 27 19 1.9 12 17 19 -0.4 23 25 18 1.6						
p	23	2 16 19 -0.7 13 15 19 -0.8 24 19 18 0.2						
q	20	3 25 19 1.4 14 15 18 -0.8 25 19 18 0.2						
r	29	4 16 19 -0.7 15 20 18 0.4 26 21 18 0.7						
s	16	5 16 19 -0.7 16 23 18 1.1 27 20 18 0.5						
t	19	6 13 19 -1.4 17 19 18 0.2 28 19 18 0.3						
u	19	7 24 19 1.2 18 17 18 -0.3 29 16 18 -0.5						
v	16	8 19 19 0.1 19 11 18 -1.7 30 22 18 1.0						
w	21	9 15 19 -0.9 20 21 18 0.7 31 17 18 -0.2						
x	14	10 27 19 2.0 21 11 18 -1.7 32 25 18 1.7						
y	13	11 15 19 -0.8 22 20 18 0.4 33 21 18 0.8						
z	27	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W						

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2468	62250	1.031	1.75	27	146	4383	0.866	-1.69
3	1534	41417	0.963	-1.35	28	174	4216	1.073	1.00
4	1251	31000	1.049	1.86	29	146	4063	0.934	-0.81
5	1073	24750	1.127	4.06	30	181	3920	1.201	2.67
6	819	20584	1.034	1.10	31	133	3784	0.914	-0.98
7	702	17608	1.037	1.11	32	162	3660	1.151	1.86
8	647	15376	1.094	2.45	33	123	3540	0.903	-1.12
9	472	13640	0.900	-2.21	34	144	3430	1.092	1.15
10	598	12250	1.269	6.01	35	140	3325	1.095	1.19
11	399	11115	0.933	-1.32	36	127	3224	1.024	0.31
12	410	10168	1.048	1.04	37	108	3133	0.896	-1.10
13	366	9367	1.016	0.38	38	125	3042	1.068	0.79
14	351	8680	1.051	1.05	39	106	2958	0.932	-0.70
15	329	8085	1.058	1.12	40	151	2880	1.363	4.04
16	333	7564	1.145	2.53	41	89	2802	0.826	-1.87
17	286	7105	1.047	0.87	42	116	2728	1.106	1.10
18	259	6696	1.006	0.16	43	90	2662	0.879	-1.17
19	253	6331	1.039	0.69	44	85	2596	0.851	-1.45
20	317	6000	1.374	6.05	45	100	2530	1.028	0.32
21	203	5704	0.925	-1.07	46	87	2470	0.916	-0.80
22	185	5434	0.885	-1.67	47	92	2415	0.990	-0.06
23	216	5187	1.083	1.22	48	97	2360	1.069	0.73
24	200	4960	1.048	0.73	49	116	2305	1.308	3.12
25	209	4750	1.144	2.07	50	110	2250	1.271	2.75
26	187	4560	1.066	0.98	51	88	2205	1.038	0.38

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	497	2	0.26	7.42	3.3
5	496	0	0.02	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	102	80	a c m z
4	70	125	1 x x y

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT o h g w x III 3 4
 for interpretation of this run call P 1 on x 3957

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MONO
 COUNT

TOTAL 318 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	15						
b	11	IC TESTS FOR SIGNIFICANCE					
c	17	MONO IC 0.9605 SIGMAGE	-1.7	318		1862	1938
d	11	DIGRAPHIC TESTS					
e	15	DIGRAPH IC 1.552 SIGMAGE	4.8	317		115	74
f	8	CUT A IC 1.722 SIGMAGE	3.1	159		32	19
g	13	CUT B IC 1.853 SIGMAGE	3.7	158		34	18
h	17	TRIGRAPHIC TESTS					
i	13	TRIGRAPH IC 3.53 SIGMAGE	4.3	316		10	2.83
j	14	CUT A IC 3.13 SIGMAGE	1.2	106		1	0.32
k	13	CUT B IC 6.45 SIGMAGE	3.1	105		2	0.31
l	11	CUT C IC 0.00 SIGMAGE	-0.6	105		0	0.31
m	13	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	11	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE					
o	10	1 1 12 -3.2 12 6 11 -1.6 23 5 11 -1.8					
p	12	2 8 12 -1.1 13 8 11 -1.0 24 9 11 -0.6					
q	13	3 13 12 0.4 14 9 11 -0.7 25 10 11 -0.3					
r	10	4 26 12 4.3 15 16 11 1.5 26 23 11 3.8					
s	11	5 11 12 -0.2 16 8 11 -1.0 27 6 11 -1.5					
t	11	6 14 12 0.7 17 4 11 -2.2 28 13 11 0.7					
u	8	7 11 12 -0.2 18 15 11 1.2 29 10 11 -0.2					
v	8	8 10 11 -0.4 19 14 11 0.9 30 7 11 -1.1					
w	13	9 10 11 -0.4 20 8 11 -0.9 31 12 11 0.4					
x	14	10 9 11 -0.7 21 10 11 -0.3 32 14 11 1.1					
y	11	11 11 11 -0.1 22 11 11 0.0 33 10 11 -0.2					
z	15	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	996	25122	1.031	2.24	27	51	1716	0.773	-1.50
3	614	16695	0.956	-0.13	28	67	1650	1.056	0.76
4	483	12482	1.006	0.99	29	58	1585	0.951	-0.08
5	382	9954	0.998	0.74	30	59	1530	1.003	0.34
6	319	8268	1.003	0.76	31	55	1475	0.969	0.06
7	244	7065	0.898	-1.07	32	62	1422	1.134	1.38
8	240	6162	1.013	0.83	33	44	1377	0.831	-0.91
9	197	5460	0.938	-0.35	34	49	1332	0.956	-0.04
10	188	4898	0.998	0.52	35	50	1287	1.010	0.34
11	174	4438	1.019	0.75	36	46	1248	0.958	-0.02
12	150	4056	0.962	0.01	37	46	1212	0.987	0.18
13	157	3732	1.094	1.60	38	37	1176	0.818	-1.00
14	126	3454	0.948	-0.16	39	55	1140	1.254	2.05
15	122	3213	0.987	0.29	40	40	1106	0.940	-0.15
16	113	3002	0.979	0.20	41	44	1078	1.061	0.70
17	102	2817	0.941	-0.22	42	38	1050	0.941	-0.14
18	103	2652	1.010	0.49	43	47	1022	1.196	1.41
19	88	2504	0.914	-0.47	44	42	994	1.099	0.83
20	93	2370	1.020	0.59	45	46	966	1.238	1.66
21	74	2250	0.855	-1.06	46	38	942	1.049	0.53
22	85	2142	1.032	0.64	47	32	921	0.903	-0.35
23	75	2041	0.955	-0.05	48	35	900	1.011	0.30
24	67	1950	0.893	-0.61	49	32	879	0.947	-0.08
25	71	1866	0.989	0.25	50	31	858	0.939	-0.13
26	84	1788	1.221	2.34	51	33	837	1.025	0.38

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	315	0	0.10	0.00	-0.3
5	314	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT e t g t u III 3 5
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 200 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	5									
b	7	IC TESTS FOR SIGNIFICANCE								
c	5	MONO IC	0.9917	SIGMAGE	-0.2	200		759	765	
d	8	DIGRAPHIC TESTS								
e	7	DIGRAPH IC	1.029	SIGMAGE	0.2	199		30	29	
f	9	CUT A IC	0.819	SIGMAGE	-0.5	100		6	7	
g	8	CUT B IC	1.254	SIGMAGE	0.7	99		9	7	
h	13	TRIGRAPHIC TESTS								
i	9	TRIGRAPH IC	0.90	SIGMAGE	-0.1	198		1	1.11	
j	11	CUT A IC	0.00	SIGMAGE	-0.4	66		0	0.12	
k	10	CUT B IC	0.00	SIGMAGE	-0.4	66		0	0.12	
l	8	CUT C IC	8.33	SIGMAGE	2.6	66		1	0.12	
m	3	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	7	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	5	1 7 8 -0.2 12 10 7 1.1 23 8 7 0.5								
p	10	2 7 8 -0.2 13 8 7 0.3 24 7 7 0.1								
q	2	3 5 7 -0.9 14 10 7 1.1 25 8 7 0.5								
r	10	4 8 7 0.2 15 4 7 -1.2 26 6 7 -0.2								
s	9	5 7 7 -0.2 16 9 7 0.8 27 7 7 0.2								
t	8	6 4 7 -1.3 17 3 7 -1.5 28 8 7 0.6								
u	8	7 10 7 1.0 18 4 7 -1.1 29 1 6 -2.2								
v	4	8 5 7 -0.9 19 7 7 0.0 30 3 6 -1.4								
w	9	9 10 7 1.0 20 5 7 -0.7 31 11 6 1.8								
x	8	10 7 7 -0.1 21 11 7 1.6 32 12 6 2.3								
y	12	11 8 7 0.3 22 7 7 0.1 33 5 6 -1.4								
z	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	384	9900	1.008	0.32	27	35	644	1.413	2.11
3	252	6567	0.998	0.10	28	26	616	1.097	0.53
4	184	4900	0.976	-0.22	29	18	591	0.792	-1.00
5	150	3900	1.000	0.10	30	21	570	0.958	-0.17
6	130	3234	1.045	0.58	31	21	549	0.995	0.02
7	124	2758	1.169	1.95	32	22	528	1.083	0.46
8	96	2400	1.040	0.48	33	22	507	1.128	0.54
9	93	2123	1.139	1.32	34	19	490	1.008	0.06
10	75	1900	1.026	0.31	35	15	475	0.821	-0.68
11	67	1719	1.013	0.17	36	16	460	0.904	-0.35
12	65	1568	1.078	0.69	37	17	445	0.993	0.00
13	52	1440	0.939	-0.42	38	17	430	1.028	0.14
14	65	1330	1.271	1.95	39	11	415	0.689	-1.21
15	48	1235	1.011	0.13	40	16	400	1.040	0.19
16	49	1152	1.106	0.80	41	12	390	0.800	-0.77
17	37	1078	0.892	-0.70	42	13	380	0.889	-0.41
18	44	1012	1.130	0.83	43	8	370	0.562	-1.72
19	37	955	1.007	0.09	44	12	360	0.867	-0.50
20	31	900	0.896	-0.58	45	22	350	1.634	2.57
21	32	855	0.973	-0.11	46	13	340	0.994	0.01
22	33	810	1.059	0.40	47	10	330	0.788	-0.82
23	27	772	0.909	-0.50	48	13	320	1.056	0.26
24	32	736	1.130	0.69	49	17	310	1.426	1.30
25	32	700	1.189	0.99	50	15	300	1.300	0.92
26	22	672	0.851	-0.71	51	14	294	1.238	0.74

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	197	0	0.05	0.00	-0.2
5	196	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

144

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT f a p d h III 3 6A
 for interpretation of this run call P 1 on x 4040

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 200 DITS 0

		IC TESTS FOR SIGNIFICANCE				TOTAL		HITS OBSERVED		HITS EXPECTED	
a	9	MONO IC 1.0309 SIGMAGE				0.8	200	789		765	
b	5	DIGRAPHIC TESTS									
c	5	DIGRAPH	IC	0.961	SIGMAGE	-0.2	199	28		29	
d	8	CUT A	IC	1.093	SIGMAGE	0.3	100	8		7	
e	4	CUT B	IC	0.836	SIGMAGE	-0.4	99	6		7	
f	5	TRIGRAPHIC TESTS									
g	6	TRIGRAPH	IC	0.90	SIGMAGE	-0.1	198	1		1.11	
h	6	CUT A	IC	8.33	ICMAGE	2.6	66	1		0.12	
i	12	CUT B	IC	0.00	SIGMAGE	-0.4	66	0		0.12	
j	9	CUT C	IC	0.00	SIGMAGE	-0.4	66	0		0.12	
k	5	LOCAL ROUGHNESS OFFSETS 1 TO 33									
l	3	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS
m	12	1	10	8	0.7	12	4	8	-1.3	23	5
n	3	2	7	8	-0.3	13	7	7	-0.2	24	7
o	14	3	10	8	0.8	14	7	7	-0.2	25	7
p	13	4	6	8	-0.7	15	9	7	0.6	26	3
q	6	5	6	8	-0.7	16	9	7	0.6	27	6
r	8	6	9	8	0.5	17	8	7	0.3	28	8
s	5	7	7	8	-0.3	18	9	7	0.7	29	9
t	8	8	9	8	0.5	19	5	7	-0.8	30	12
u	10	9	12	8	1.6	20	10	7	1.1	31	4
v	11	10	4	8	-1.3	21	7	7	-0.1	32	9
w	11	11	13	8	2.0	22	16	7	3.4	33	10
x	7	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
y	7	W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
z		2	410	9900	1.077	0.92	27	31	644	1.252	1.11
		3	256	6567	1.014	-0.27	28	26	616	1.097	0.33
		4	199	4900	1.056	0.35	29	23	591	1.012	-0.10
		5	158	3900	1.053	0.29	30	20	570	0.912	-0.60
		6	125	3234	1.005	-0.29	31	22	549	1.042	0.06
		7	105	2758	0.990	-0.45	32	25	528	1.231	1.00
		8	102	2400	1.105	0.74	33	24	507	1.231	0.80
		9	82	2123	1.004	-0.24	34	18	490	0.955	-0.30
		10	75	1900	1.026	-0.05	35	20	475	1.095	0.26
		11	96	1719	1.452	3.37	36	19	460	1.074	0.17
		12	57	1568	0.945	-0.69	37	11	445	0.643	-1.55
		13	56	1440	1.011	-0.16	38	18	430	1.088	0.23
		14	54	1330	1.056	0.18	39	16	415	1.002	-0.12
		15	46	1235	0.968	-0.44	40	14	400	0.910	-0.48
		16	51	1152	1.151	0.84	41	11	390	0.733	-1.19
		17	46	1078	1.109	0.55	42	11	380	0.753	-1.11
		18	38	1012	0.976	-0.33	43	17	370	1.195	0.66
		19	38	955	1.035	0.02	44	17	360	1.228	0.79
		20	34	900	0.982	-0.29	45	11	350	0.817	-0.86
		21	24	855	0.730	-1.81	46	9	340	0.688	-1.37
		22	46	810	1.477	2.68	47	13	330	1.024	-0.03
		23	25	772	0.842	-1.13	48	13	320	1.056	0.10
		24	26	736	0.918	-0.57	49	11	310	0.923	-0.32
		25	26	700	0.966	-0.33	50	10	300	0.867	-0.49
		26	22	672	0.851	-0.90	51	15	294	1.327	0.89
		POLYGRAPHIC HITS AND IC									
		LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE				
		4	197	0	0.05	0.0	-0.2				
		5	196	0	0.01	0.00	0.0				

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

146

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t n s d 1 III 3 6B
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 200 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	11										
b	5	IC TESTS FOR SIGNIFICANCE									
c	6	MONO IC 1.0583 SIGMAGE				1 6	200		810	765	
d	8	DIGRAPHIC TESTS									
e	12	DIGRAPH IC 1.064 SIGMAGE				0.3	199		31	29	
f	11	CUT A IC 1.366 SIGMAGE				1.0	100		10	7	
g	4	CUT B IC 1.394 SIGMAGE				1.1	99		10	7	
h	7	TRIGRAPHIC TESTS									
i	7	TRIGRAPH IC 2.70 SIGMAGE				1.8	198		3	1.11	
j	2	CUT A IC 0.00 SIGMAGE				-0.4	66		0	0.12	
k	4	CUT B IC 0.00 SIGMAGE				-0.4	66		0	0.12	
l	11	CUT C IC 0.00 SIGMAGE				-0.4	66		0	0.12	
m	9	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	3	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	5	1 6 8 -0.8 12 5 8 -1.0 23 5 7 -0.9									
p	7	2 9 8 0.3 13 6 8 -0.6 24 7 7 -0.1									
q	13	3 6 8 -0.7 14 7 8 -0.2 25 7 7 -0.1									
r	12	4 8 8 0.0 15 7 8 -0.2 26 8 7 0.3									
s	6	5 6 8 -0.7 16 17 8 3.5 27 7 7 0.0									
t	10	6 20 8 4.4 17 13 8 2.1 28 9 7 0.7									
u	6	7 6 8 -0.7 18 12 7 1.7 29 7 7 0.0									
v	9	8 8 8 0.0 19 5 7 -0.9 30 5 7 -0.8									
w	7	9 7 8 -0.3 20 9 7 0.6 31 5 7 -0.7									
x	5	10 11 8 1.2 21 5 7 -0.9 32 9 7 0.8									
y	5	11 7 8 -0.3 22 12 7 1.8 33 9 7 0.8									
z	15	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	453	9900	1.190	2.64	27	27	644	1.090	0.16
3	272	6567	1.077	0.30	28	29	616	1.224	0.83
4	223	4900	1.183	1.75	29	23	591	1.012	-0.23
5	145	3900	0.967	-1.18	30	16	570	0.730	-1.64
6	149	3234	1.198	1.54	31	16	549	0.758	-1.50
7	105	2758	0.990	-0.75	32	28	528	1.379	1.61
8	126	2400	1.365	3.07	33	19	507	0.974	-0.34
9	83	2123	1.016	-0.38	34	21	490	1.114	0.22
10	80	1900	1.095	0.33	35	17	475	0.931	-0.51
11	66	1719	0.998	-0.48	36	19	460	1.074	0.06
12	63	1568	1.045	-0.10	37	12	445	0.701	-1.43
13	58	1440	1.047	-0.09	38	16	430	0.967	-0.36
14	62	1330	1.212	1.08	39	18	415	1.128	0.28
15	36	1235	0.758	-2.10	40	18	400	1.170	0.45
16	72	1152	1.625	3.97	41	15	390	1.000	-0.23
17	50	1078	1.206	1.04	42	20	380	1.368	1.24
18	44	1012	1.130	0.43	43	16	370	1.124	0.26
19	33	955	0.898	-0.96	44	16	360	1.156	0.39
20	43	900	1.242	1.10	45	11	350	0.817	-0.96
21	35	855	1.064	0.04	46	17	340	1.300	0.97
22	36	810	1.156	0.59	47	13	330	1.024	-0.14
23	31	772	1.044	-0.08	48	18	320	1.463	1.62
24	32	736	1.130	0.36	49	9	310	0.755	-0.91
25	24	700	0.891	-0.84	50	13	300	1.127	0.21
26	29	672	1.122	0.32	51	15	294	1.327	0.81

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	197	0	0.05	0.00	-0.2
5	196	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT 3 3 1 6 8 III 3 7

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 175 DITS 0

						TOTAL	HITS OBSERVED	HITS EXPECTED
0	25							
1	20	IC TESTS FOR SIGNIFICANCE						
2	16	MONO IC	1.0214	SIGMAGE	0.8	175	1555	1522
3	17	DIGRAPHIC TESTS						
4	20	DIGRAPH IC	1.036	SIGMAGE	0.4	174	156	151
5	25	CUT A IC	0.909	SIGMAGE	-0.6	87	34	37
6	13	CUT B IC	0.989	SIGMAGE	-0.1	87	37	37
7	10	TRIGRAPHIC TESTS						
8	14	TRIGRAPH IC	1.88	SIGMAGE	3.4	173	28	14.88
9	15	CUT A IC	3.03	SIGMAGE	2.6	58	5	1.65
		CUT B IC	6.67	SIGMAGE	7.4	58	11	1.65
		CUT C IC	3.75	SIGMAGE	3.5	57	6	1.60

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	9	18	-2.2	12	15	17	-0.4	23	18	16	0.7
2	15	18	-0.7	13	13	17	-0.9	24	35	15	5.3
3	16	18	-0.4	14	20	16	0.9	25	12	15	-0.9
4	11	17	-1.6	15	30	16	3.6	26	11	15	-1.1
5	19	17	0.4	16	10	16	-1.6	27	17	15	0.5
6	11	17	-1.6	17	18	16	0.5	28	18	15	0.8
7	22	17	1.2	18	9	16	-1.8	29	20	15	1.4
8	14	17	-0.8	19	13	16	-0.8	30	6	15	-2.4
9	22	17	1.3	20	15	16	-0.2	31	18	15	0.9
10	13	17	-1.0	21	10	16	-1.5	32	16	15	0.4
11	12	17	-1.2	22	22	16	1.7	33	11	14	-1.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	760	7569	1.004	-0.49	27	45	483	0.932	-0.62
3	541	5017	1.078	1.37	28	50	462	1.082	0.43
4	410	3741	1.096	1.50	29	52	441	1.179	1.11
5	281	2975	0.945	-1.37	30	31	425	0.729	-2.04
6	256	2465	1.039	0.31	31	57	410	1.390	2.58
7	222	2100	1.057	0.54	32	46	395	1.165	1.01
8	209	1827	1.144	1.72	33	32	380	0.842	-1.25
9	158	1615	0.978	-0.56	34	42	365	1.151	0.78
10	122	1445	0.844	-2.30	35	34	350	0.971	-0.30
11	124	1305	0.950	-0.85	36	39	340	1.147	0.76
12	169	1190	1.420	4.79	37	35	330	1.061	0.24
13	114	1092	1.044	0.25	38	32	320	1.000	-0.13
14	95	1008	0.942	-0.87	39	44	310	1.419	2.39
15	86	935	0.920	-1.01	40	28	300	0.933	-0.53
16	97	870	1.115	0.94	41	39	290	1.345	1.94
17	89	815	1.092	0.71	42	26	280	0.929	-0.55
18	63	765	0.824	-1.77	43	29	270	1.074	0.32
19	74	720	1.028	0.06	44	21	261	0.805	-1.08
20	70	680	1.029	0.07	45	17	255	0.667	-1.77
21	72	644	1.118	0.87	46	19	249	0.763	-1.29
22	64	609	1.051	0.24	47	19	243	0.782	-1.20
23	52	581	0.895	-1.01	48	44	237	1.857	4.18
24	104	553	1.881	6.88	49	26	231	1.126	0.53
25	40	525	0.762	-2.07	50	19	225	0.844	-0.89
26	51	504	1.012	-0.07	51	21	219	0.959	-0.31

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	172	15	1.48	10.20	11.2
5	171	11	0.14	75.68	28.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	38	48	1	4 0 5
4	20	24	2	5 5 4
4	67	105	4	2 3 9
15	131	15	5	3 4 8 3 0 5 6 0 4 6 1 8 9
			5	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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TOTAL 90 DITS 0

a	1	IC TESTS FOR SIGNIFICANCE						TOTAL		HITS OBSERVED		HITS EXPECTED	
b	3	MONO IC		1.2315	SIGMA	2.4	90	137		111			
c	7	DIGRAPHIC TESTS											
d	5	DIGRAPH IC		2.317	SIGMA	2.3	89	7		3			
e	3	CUT A IC		1.309	SIGMA	0.3	45	1		1			
f	0	CUT B IC		2.740	SIGMA	1.5	44	2		1			
g	2	TRIGRAPHIC TESTS											
h	3	TRIGRAPH IC		0.00	SIGMA	-0.3	88	0		0.08			
i	2	CUT A IC		0.00	SIGMA	-0.1	30	0		0.01			
j	0	CUT B IC		0.00	SIGMA	-0.1	29	0		0.01			
k	5	CUT C IC		0.00	SIGMA	-0.1	29	0		0.01			
l	2	LOCAL ROUGHNESS OFFSETS 1 TO 33											
m	5	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA
n	3	1	2	3	-0.6	12	6	3	2.1	23	1	2	-0.9
o	3	2	4	3	0.6	13	2	3	-0.4	24	1	2	-0.8
p	4	3	5	3	1.2	14	4	3	0.9	25	2	2	-0.1
q	5	4	2	3	-0.6	15	6	3	2.2	26	2	2	-0.1
r	0	5	6	3	1.9	16	1	3	-1.0	27	2	2	-0.1
s	2	6	4	3	0.7	17	6	2	2.3	28	2	2	-0.1
t	2	7	5	3	1.3	18	1	2	-0.9	29	1	2	-0.8
u	4	8	3	3	0.1	19	3	2	0.4	30	0	2	-1.5
v	2	9	3	3	0.2	20	0	2	-1.6	31	3	2	0.7
w	3	10	2	3	-0.4	21	4	2	1.1	32	2	2	0.0
x	2	11	1	3	-1.0	22	6	2	2.5	33	1	2	-0.7
y	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											
z	0	W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA		
1	0	2	60	1980	1.091	-1.13	27	6	108	2.000	1.54		
2	0	3	47	1305	1.297	0.39	28	3	102	1.059	-0.35		
3	1	4	24	958	0.893	-1.70	29	1	96	0.375	-1.71		
4	4	5	20	765	0.941	-1.46	30	0	90	0.000	-2.46		
5	8	6	20	630	1.143	-0.36	31	5	87	2.069	0.84		
6	0	7	20	534	1.348	0.46	32	2	84	0.857	-0.38		
7	3	8	10	462	0.779	-1.81	33	3	81	1.333	0.10		
8	2	9	12	405	1.067	-0.50	34	3	78	1.385	0.15		
9	2	10	5	360	0.500	-2.20	35	1	75	0.480	-0.75		
0	1	11	11	324	1.222	-0.03	36	1	72	0.500	-0.73		
		12	8	294	0.980	-0.76	37	2	69	1.043	-0.19		
		13	8	267	1.079	-0.46	38	1	66	0.545	-0.69		
		14	9	246	1.317	0.26	39	3	63	1.714	0.48		
		15	6	225	0.960	-0.54	40	2	60	1.200	-0.03		
		16	4	210	0.686	-1.09	41	2	57	1.263	0.03		
		17	9	195	1.662	0.86	42	1	54	0.667	-0.57		
		18	6	180	1.200	-0.06	43	2	51	1.412	0.18		
		19	5	170	1.059	-0.35	44	1	48	0.750	-0.48		
		20	2	160	0.450	-1.56	45	0	45	0.000	-1.23		
		21	6	150	1.440	0.42	46	1	44	0.818	-0.41		
		22	9	140	2.314	2.16	47	2	43	1.674	0.44		
		23	3	132	0.818	-0.83	48	0	42	0.000	-1.23		
		24	1	126	0.286	-1.89	49	1	41	0.878	-0.35		
		25	2	120	0.600	-1.26	50	0	40	0.000	-1.23		
		26	2	114	0.632	-1.20	51	0	39	0.000	-1.23		

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	87	0	0.01	0.00	-0.1
5	86	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

152

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT k 8 a z e III 3 8b
 for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 119 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	5												
b	6	IC TESTS FOR SIGNIFICANCE											
c	1	MONO IC	1.2357	SIGMAGE	3.3	119				241	195		
d	1	DIGRAPHIC TESTS											
e	3	DIGRAPH IC	2.628	SIGMAGE	3.8	118			14	5			
f	5	CUT A IC	3.030	SIGMAGE	2.4	59			4	1			
g	2	CUT B IC	3.030	SIGMAGE	2.4	59			4	1			
h	6	TRIGRAPHIC TESTS											
i	1	TRIGRAPH IC	20.00	SIGMAGE	7.3	117			3	0.15			
j	1	CUT A IC	0.00	SIGMAGE	-0.1	39			0	0.02			
k	4	CUT B IC	0.00	SIGMAGE	-0.1	39			0	0.02			
l	0	CUT C IC	0.00	SIGMAGE	-0.1	39			0	0.02			
m	3	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	4	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	7	1	3	4	-0.5	12	6	4	1.3	23	2	3	-0.7
p	8	2	5	4	0.5	13	3	4	-0.3	24	2	3	-0.7
q	2	3	8	4	2.1	14	2	4	-0.8	25	5	3	1.0
r	5	4	2	4	-1.0	15	5	4	0.8	26	6	3	1.6
s	4	5	7	4	1.6	16	4	4	0.3	27	2	3	-0.6
t	2	6	6	4	1.1	17	6	3	1.4	28	1	3	-1.2
u	7	7	5	4	0.6	18	5	3	0.9	29	3	3	0.0
v	5	8	6	4	1.2	19	5	3	0.9	30	6	3	1.7
w	3	9	3	4	-0.4	20	4	3	0.4	31	2	3	-0.6
x	3	10	6	4	1.2	21	0	3	-1.9	32	3	3	0.0
y	3	11	4	4	0.2	22	4	3	0.4	33	0	3	-1.7
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											
1	0	W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE		
2	0	2	123	3481	1.272	0.36	27	6	206	1.049	-0.37		
3	6	3	81	2301	1.267	0.25	28	4	196	0.735	-1.00		
4	2	4	53	1711	1.115	-0.85	29	7	186	1.355	0.24		
5	6	5	54	1357	1.433	1.18	30	7	177	1.424	0.38		
6	0	6	47	1121	1.509	1.64	31	5	171	1.053	-0.37		
7	4	7	25	952	0.945	-1.46	32	7	165	1.527	0.58		
8	4	8	27	826	1.177	-0.50	33	1	159	0.226	-2.02		
9	1	9	25	728	1.236	0.00	34	7	153	1.647	0.82		
0	0	10	25	649	1.387	0.60	35	4	147	0.980	-0.51		
		11	15	585	0.923	-1.25	36	6	141	1.532	0.59		
		12	21	531	1.424	0.75	37	5	135	1.333	0.19		
		13	12	486	0.889	-1.39	38	3	129	0.837	-0.80		
		14	13	448	1.045	-0.76	39	0	123	0.000	-2.47		
		15	14	413	1.220	-0.05	40	3	118	0.915	-0.64		
		16	14	385	1.309	0.22	41	3	115	0.939	-0.59		
		17	16	357	1.613	1.13	42	6	112	1.929	1.39		
		18	14	336	1.500	0.79	43	1	109	0.330	-1.81		
		19	14	315	1.600	1.09	44	2	106	0.679	-1.11		
		20	9	295	1.098	-0.41	45	2	103	0.699	-1.07		
		21	8	280	1.029	-0.62	46	4	100	1.440	0.41		
		22	6	265	0.815	-1.26	47	1	97	0.371	-1.73		
		23	7	250	1.008	-0.68	48	4	94	1.532	0.59		
		24	7	236	1.068	-0.50	49	2	91	0.791	-0.89		
		25	7	226	1.115	-0.24	50	2	88	0.818	-0.84		
		26	6	216	1.000	-0.47	51	3	85	1.271	0.04		

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	116	1	0.01	251.82	15.9
5	115	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	43	10	b p 3 x

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

154

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT k o z k l Z 295
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
 COUNT

TOTAL 346 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	19										
b	13	IC TESTS FOR SIGNIFICANCE									
c	10	MONO IC	1.1540	SIGMAGE	7.5	346			2649	2295	
d	14	DIGRAPHIC TESTS									
e	21	DIGRAPH IC	3.281	SIGMAGE	21.4	345			288	88	
f	21	CUT A IC	2.817	SIGMAGE	8.6	173			62	22	
g	10	CUT B IC	3.448	SIGMAGE	11.5	172			75	22	
h	12	TRIGRAPHIC TESTS									
i	17	TRIGRAPH IC	38.69	SIGMAGE	69.1	344			130	3.36	
j	1	CUT A IC	43.24	SIGMAGE	25.9	115			16	0.37	
k	19	CUT B IC	32.43	SIGMAGE	19.3	115			12	0.37	
l	11	CUT C IC	32.43	SIGMAGE	19.1	114			12	0.37	
m	19	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	2	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF									
o	22	1 7 15 -2.1 12 30 15 4.1 23							14 14 -0.1		
p	12	2 13 15 -0.6 13 10 15 -1.2 24							35 14 5.7		
q	11	3 10 15 -1.3 14 7 15 -2.0 25							9 14 -1.4		
r	1	4 34 15 5.0 15 12 15 -0.7 26							12 14 -0.6		
s	12	5 9 15 -1.6 16 19 15 1.2 27							8 14 -1.6		
t	17	6 14 15 -0.3 17 10 14 -1.2 28							33 14 5.2		
u	15	7 14 15 -0.2 18 6 14 -2.3 29							9 14 -1.4		
v	20	8 24 15 2.4 19 11 14 -0.9 30							9 14 -1.3		
w	4	9 11 15 -1.0 20 29 14 4.0 31							13 14 -0.2		
x	11	10 7 15 -2.1 21 13 14 -0.4 32							22 14 2.3		
y	23	11 8 15 -1.8 22 5 14 -2.5 33							13 14 -0.2		
z	9										

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W		HITS		COMPS		AVG IC		SIGMAGE	
W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1303	29756	1.139	-0.53	27	70	2046	0.890	-2.38
3	867	19780	1.140	-0.39	28	87	1968	1.149	-0.05
4	806	14792	1.417	6.31	29	100	1892	1.374	1.98
5	488	11799	1.075	-1.74	30	76	1826	1.082	-0.65
6	404	9804	1.071	-1.66	31	76	1760	1.123	-0.25
7	369	8379	1.145	-0.16	32	81	1700	1.239	0.68
8	367	7310	1.305	2.57	33	82	1645	1.296	1.14
9	275	6479	1.104	-0.80	34	61	1590	0.997	-1.26
10	235	5814	1.051	-1.55	35	54	1539	0.912	-1.94
11	258	5270	1.273	1.79	36	80	1494	1.392	1.90
12	248	4816	1.339	2.59	37	50	1449	0.897	-2.06
13	198	4433	1.161	0.09	38	57	1404	1.056	-0.78
14	161	4104	1.020	-1.74	39	54	1364	1.029	-0.88
15	161	3818	1.096	-0.70	40	56	1328	1.096	-0.41
16	156	3570	1.136	-0.22	41	45	1292	0.906	-1.74
17	141	3350	1.094	-0.72	42	47	1256	0.973	-1.27
18	128	3154	1.055	-1.09	43	61	1220	1.300	1.02
19	134	2979	1.170	0.18	44	84	1190	1.835	4.77
20	137	2822	1.262	1.19	45	47	1162	1.052	-0.71
21	123	2680	1.193	0.39	46	47	1134	1.078	-0.53
22	139	2550	1.417	2.63	47	36	1106	0.846	-2.16
23	103	2430	1.102	-0.52	48	37	1078	0.892	-1.83
24	120	2324	1.343	1.89	49	41	1050	1.015	-0.97
25	81	2223	0.947	-1.86	50	32	1026	0.811	-2.06
26	99	2132	1.207	0.48	51	42	1005	1.087	-0.40

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	343	86	0.12	670.01	240.0
5	342	47	0.01	9605.49	674.5

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PAGE 2

LENGTH	POSITION	OFFSET	SET	REPEATED	TEXT
4	243	88	c	a	m t
4	17	95	c	y	t v
4	17	182	c	y	t v
4	17	286	c	y	t v
4	112	-191	c	y	t v
4	199	104	c	y	t v
4	88	219	f	a	f p
4	88	223	f	a	f p
4	307	4	f	a	f p
4	104	191	h	a	v g
4	148	147	h	a	v g
4	191	104	h	a	v g
4	84	44	k	o	v f
4	84	88	k	o	v f
4	128	44	k	o	v f
4	1	131	k	o	z k
4	1	155	k	o	z k
4	1	159	k	o	z k
4	132	24	k	o	z k
4	132	-28	k	o	z k
5	156	4	k	o	z k
4	164	107	k	y	l t
4	5	8	l	i	f s
5	5	214	l	i	f s
4	13	206	l	i	f s
6	22	-251	l	t	h a
4	96	24	m	o	f s
20	96	87	m	o	f s
4	120	-20	m	o	f s
4	120	63	m	o	f s
16	140	-43	m	o	f s
17	95	44	p	m	o f
4	56	147	i	t	z
4	215	64	q	e	p g
4	40	24	s	u	l b
4	48	251	v	y	d v
4	52	124	x	o	c y
4	72	191	x	y	e y
6	75	243	y	x	a f

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

SECRET



STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT u k l q f Z 240
 for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 333 DITS 0

								HITS OBSERVED	HITS EXPECTED
a	12								
b	16	IC TESTS FOR SIGNIFICANCE				TOTAL			
c	12	MONO IC 1.0000	SIGMAGE	0.0	333		2126	2126	
d	20	DIGRAPHIC TESTS							
e	8	DIGRAPH IC 1.267	SIGMAGE	2.4	332		103	81	
f	7	CUT A IC 0.839	SIGMAGE	-0.7	166		17	20	
g	15	CUT B IC 1.431	SIGMAGE	1.9	166		29	20	
h	13	TRIGRAPHIC TESTS							
i	12	TRIGRAPH IC 3.22	SIGMAGE	3.9	331		10	3.11	
j	19	CUT A IC 0.00	SIGMAGE	-0.6	111		0	0.35	
k	11	CUT B IC 0.00	SIGMAGE	-0.6	110		0	0.34	
l	16	CUT C IC 0.00	SIGMAGE	-0.6	110		0	0.34	
m	12	LOCAL ROUGHNESS OFFSETS 1 TO 33							
n	11	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE							
o	13	1 0 13 -3.6 12 10 12 -0.6 23 15 12 1.0							
p	14	2 9 13 -1.0 13 18 12 1.7 24 10 12 -0.5							
q	14	3 11 13 -0.4 14 10 12 -0.6 25 10 12 -0.5							
r	16	4 10 13 -0.7 15 12 12 0.0 26 11 12 -0.2							
s	8	5 7 12 -1.6 16 9 12 -0.9 27 16 12 1.3							
t	19	6 22 12 2.8 17 11 12 -0.3 28 9 12 -0.8							
u	10	7 19 12 1.9 18 15 12 0.9 29 9 12 -0.8							
v	8	8 8 12 -1.3 19 14 12 0.6 30 14 12 0.7							
w	9	9 15 12 0.8 20 12 12 0.0 31 8 11 -1.0							
x	16	10 12 12 -0.1 21 12 12 0.0 32 16 11 1.4							
y	10	11 14 12 0.5 22 11 12 -0.2 33 13 11 0.5							
z	12	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W							

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1050	27556	0.991	-0.30	27	69	1890	0.949	-0.46
3	698	18315	0.991	-0.24	28	68	1815	0.974	-0.23
4	507	13695	0.963	-0.85	29	65	1749	0.966	-0.27
5	417	10923	0.993	-0.15	30	68	1683	1.051	0.41
6	343	9075	0.983	-0.32	31	57	1625	0.912	-0.70
7	283	7755	0.949	-0.92	32	55	1570	0.911	-0.71
8	248	6765	0.953	-0.75	33	70	1515	1.201	1.61
9	225	5994	0.976	-0.38	34	55	1467	0.975	-0.20
10	195	5379	0.943	-0.86	35	46	1422	0.841	-1.27
11	218	4875	1.163	2.28	36	53	1377	1.001	0.01
12	159	4455	0.928	-0.94	37	59	1332	1.152	1.06
13	161	4100	1.021	0.27	38	46	1296	0.923	-0.54
14	138	3795	0.945	-0.66	39	42	1260	0.867	-0.93
15	146	3531	1.075	0.90	40	55	1224	1.168	1.18
16	117	3300	0.922	-0.94	41	36	1188	0.788	-1.48
17	105	3097	0.881	-1.31	42	50	1155	1.126	0.88
18	113	2916	1.008	0.09	43	35	1127	0.807	-1.35
19	103	2754	0.972	-0.31	44	43	1099	1.017	0.12
20	104	2608	1.037	0.37	45	39	1071	0.947	-0.37
21	91	2475	0.956	-0.44	46	36	1043	0.897	-0.72
22	98	2355	1.082	0.82	47	44	1015	1.127	0.76
23	101	2247	1.169	1.69	48	33	990	0.867	-0.80
24	77	2145	0.933	-0.60	49	33	969	0.885	-0.69
25	86	2054	1.089	0.80	50	38	948	1.042	0.25
26	70	1968	0.925	-0.68	51	29	927	0.813	-1.12

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	330	3	0.11	0.00	0.0
5	329	1	0.01	0.00	0.0

CONFIDENTIAL

STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT				
5	36	113	d	j	l	t	s
4	87	175	u	q	d	h	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

158

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g r v a x Z 306
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 355 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	16												
b	9	IC TESTS FOR SIGNIFICANCE								TOTAL			
c	14	MONO IC	1.0051	SIGMAGE	0.2	355			2429	2416			
d	12	DIGRAPHIC TESTS											
e	15	DIGRAPH IC	1.374	SIGMAGE	3.6	354			127	92			
f	17	CUT A IC	1.779	SIGMAGE	3.8	177			41	23			
g	18	CUT B IC	0.825	SIGMAGE	-0.8	177			19	23			
h	8	TRIGRAPHIC TESTS											
i	7	TRIGRAPH IC	3.97	SIGMAGE	5.6	353			14	3.53			
j	13	CUT A IC	2.56	SIGMAGE	1.0	118			1	0.39			
k	19	CUT B IC	7.69	SIGMAGE	4.2	118			3	0.39			
l	15	CUT C IC	5.13	SIGMAGE	2.6	117			2	0.39			
m	10	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	13	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	12	1	0	14	-3.8	12	14	13	0.2	23	12	13	-0.3
p	20	2	8	14	-1.6	13	6	13	-2.1	24	7	13	-1.7
q	14	3	19	14	1.5	14	10	13	-0.9	25	13	13	0.0
r	12	4	8	14	-1.6	15	12	13	-0.4	26	9	13	-1.1
s	14	5	15	14	0.4	16	13	13	-0.1	27	7	13	-1.7
t	24	6	17	14	0.9	17	18	13	1.4	28	9	13	-1.1
u	10	7	10	14	-1.0	18	14	13	0.2	29	19	13	1.8
v	13	8	9	14	-1.3	19	15	13	0.5	30	10	13	-0.8
w	12	9	9	13	-1.2	20	14	13	0.3	31	11	13	-0.5
x	14	10	19	13	1.5	21	7	13	-1.7	32	10	13	-0.7
y	14	11	18	13	1.3	22	15	13	0.6	33	15	13	0.7
z	10	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1202	31329	0.998	-0.25	27	89	2158	1.072	0.60
3	812	20827	1.014	0.26	28	86	2076	1.077	0.65
4	595	15576	0.993	-0.30	29	75	1998	0.976	-0.26
5	491	12425	1.027	0.48	30	73	1925	0.986	-0.17
6	396	10325	0.997	-0.16	31	80	1859	1.119	1.03
7	341	8825	1.005	0.00	32	63	1793	0.914	-0.82
8	283	7700	0.972	-0.59	33	71	1735	1.064	0.47
9	264	6825	1.006	0.02	34	72	1680	1.114	0.87
10	240	6125	1.019	0.22	35	64	1625	1.024	0.15
11	235	5552	1.101	1.44	36	63	1575	1.040	0.28
12	191	5075	0.979	-0.36	37	71	1530	1.207	1.62
13	184	4671	1.024	0.27	38	41	1485	0.718	-2.30
14	169	4325	1.016	0.14	39	69	1440	1.246	1.93
15	158	4025	1.021	0.21	40	49	1400	0.910	-0.76
16	134	3762	0.926	-0.95	41	62	1364	1.182	1.24
17	125	3530	0.921	-1.01	42	54	1328	1.057	0.36
18	135	3325	1.056	0.61	43	55	1292	1.107	0.71
19	116	3141	0.960	-0.50	44	54	1256	1.118	0.79
20	110	2975	0.961	-0.48	45	54	1225	1.146	0.99
21	117	2824	1.077	0.79	46	46	1197	0.999	-0.04
22	111	2688	1.074	0.69	47	55	1169	1.223	1.53
23	100	2565	1.014	0.09	48	44	1141	1.003	-0.01
24	96	2450	1.019	0.14	49	46	1113	1.075	0.49
25	101	2345	1.120	1.15	50	52	1085	1.246	1.69
26	87	2249	1.006	0.01	51	28	1019	0.68	-2.23

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	352	6	0.13	44.38	16.0
5	351	3	0.01	580.16	41.7

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

~~CONFIDENTIAL~~

LENGTH	POSITION	OFFSET	REPEATED TEXT					
4	41	216	d	x	m	p		
6	11	100	g	a	y	p	e	x
5	283	-48	q	j	y	g	j	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

160

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g i k s q Z 311
 for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 290 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	11	IC TESTS FOR SIGNIFICANCE									
c	10	MONO IC 1.3290	SIGMAGE	13.4	290				2142	1611	
d	6	DIGRAPHIC TESTS									
e	22	DIGRAPH IC 3.233	SIGMAGE	17.6	289				199	62	
f	6	CUT A IC 7.382	SIGMAGE	25.2	145				114	15	
g	9	CUT B IC 4.465	SIGMAGE	13.6	144				68	15	
h	14	TRIGRAPHIC TESTS									
i	13	TRIGRAPH IC 50.21	SIGMAGE	75.6	288				118	2.35	
j	3	CUT A IC 30.77	SIGMAGE	15.2	96				8	0.26	
k	12	CUT B IC 38.46	SIGMAGE	19.2	96				10	0.26	
l	4	CUT C IC 30.77	SIGMAGE	15.2	96				8	0.26	
m	11	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	6	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	32	1 9 15 -1.5 12 20 14 1.6 23 7 14 -1.8									
p	7	2 24 15 2.5 13 5 14 -2.5 24 27 14 3.7									
q	4	3 25 15 2.8 14 14 14 0.0 25 17 14 1.0									
r	2	4 24 15 2.5 15 7 14 -1.9 26 13 13 -0.1									
s	5	5 11 15 -1.0 16 16 14 0.6 27 13 13 -0.1									
t	6	6 10 14 -1.2 17 11 14 -0.8 28 21 13 2.1									
u	26	7 9 14 -1.5 18 9 14 -1.3 29 7 13 -1.8									
v	15	8 16 14 0.4 19 13 14 -0.2 30 13 13 -0.1									
w	16	9 7 14 -2.0 20 28 14 3.9 31 11 13 -0.6									
x	14	10 9 14 -1.4 21 10 14 -1.0 32 14 13 0.2									
y	13	11 10 14 -1.2 22 20 14 1.8 33 13 13 0.0									
z	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1400	20880	1.743	12.01	27	70	1415	1.286	-0.34
3	682	13872	1.278	-1.22	28	101	1360	1.931	4.21
4	889	10368	2.229	18.00	29	55	1305	1.096	-1.63
5	397	8265	1.249	-1.44	30	62	1260	1.279	-0.35
6	436	6864	1.652	5.49	31	75	1215	1.605	1.93
7	266	5863	1.180	-2.24	32	95	1170	2.111	5.47
8	418	5112	2.126	11.16	33	55	1132	1.263	-0.46
9	226	4528	1.298	-0.40	34	69	1096	1.637	2.16
10	255	4060	1.633	3.95	35	34	1060	0.834	-3.47
11	201	3679	1.420	1.09	36	98	1024	2.488	6.95
12	287	3360	2.221	10.70	37	45	994	1.177	-0.91
13	161	3091	1.354	0.28	38	65	966	1.749	2.52
14	163	2860	1.482	1.68	39	37	938	1.026	-1.82
15	104	2660	1.017	-3.12	40	69	910	1.971	3.85
16	190	2484	1.989	6.60	41	41	882	1.209	-0.72
17	114	2329	1.273	-0.56	42	39	858	1.182	-0.88
18	151	2192	1.791	4.16	43	41	837	1.274	-0.33
19	104	2070	1.306	-0.21	44	71	816	2.262	5.60
20	150	1960	1.990	5.95	45	33	795	1.079	-1.50
21	74	1859	1.035	-2.65	46	61	774	2.049	4.32
22	121	1768	1.779	3.60	47	43	753	1.485	0.94
23	90	1686	1.388	0.47	48	70	732	2.486	5.79
24	141	1608	2.280	7.61	49	27	715	0.982	-1.74
25	84	1540	1.418	0.71	50	51	700	1.894	2.83
26	107	1474	1.887	4.46	51	25	685	0.949	-1.90

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	287	90	0.08	1001.80	300.5
5	286	65	0.01	19040.67	1118.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
11	18	228	a o a p o o c x o i e
11	202	44	a o a p o o c x o i e
4	213	20	b e t y
4	1	192	g i k s
4	81	136	g o g o
12	37	100	h a w h w a h f m u c o
12	37	224	h a w h w a h f m u c o
12	137	124	h a w h w a h f m u c o
4	229	52	h i b l
4	17	132	j a o a
12	17	184	j a o a p o o c x o i e
4	149	52	j a o a
4	33	136	k o z k
5	220	52	o m a e u
5	48	36	o w u b v
20	57	52	v i o i d o e k x y u o x u z
			u w u b v
4	49	24	w u b v
4	49	52	w u b v
4	49	76	w u b v
4	73	12	w u b v
4	73	28	w u b v
4	85	16	w u b v
4	85	40	w u b v
4	101	24	w u b v
5	129	108	w y e x n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT x a g p 1 Z 085
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 378 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	19										
b	15	IC TESTS FOR SIGNIFICANCE									
c	16	MONO IC 1.0027 SIGMAGE	0.1	378					2748	2740	
d	11	DIGRAPHIC TESTS									
e	15	DIGRAPH IC 0.992 SIGMAGE	-0.1	377					104	105	
f	9	CUT A IC 1.027 SIGMAGE	0.1	189					27	26	
g	15	CUT B IC 1.154 SIGMAGE	0.8	188					30	26	
h	14	TRIGRAPHIC TESTS									
i	15	TRIGRAPH IC 1.00 SIGMAGE	0.0	376					4	4.01	
j	22	CUT A IC 0.00 SIGMAGE	-0.7	126					0	0.45	
k	18	CUT B IC 2.27 SIGMAGE	0.8	125					1	0.44	
l	17	CUT C IC 2.27 SIGMAGE	0.8	125					1	0.44	
m	7	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	10	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	21	1 13 15 -0.5 12 16 14 0.5 23 21 14 2.0									
p	12	2 12 15 -0.7 13 14 14 -0.1 24 15 14 0.3									
q	11	3 10 15 -1.2 14 15 14 0.2 25 15 14 0.3									
r	18	4 16 15 0.4 15 18 14 1.0 26 19 14 1.5									
s	19	5 15 15 0.1 16 12 14 -0.6 27 16 14 0.6									
t	11	6 11 15 -0.9 17 16 14 0.5 28 17 14 0.9									
u	14	7 17 14 0.7 18 11 14 -0.8 29 11 14 -0.7									
v	11	8 11 14 -0.9 19 9 14 -1.4 30 17 14 0.9									
w	14	9 15 14 0.2 20 11 14 -0.8 31 8 14 -1.5									
x	20	10 12 14 -0.6 21 21 14 1.9 32 15 13 0.4									
y	12	11 17 14 0.7 22 11 14 -0.8 33 15 13 0.4									
z	12	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
		W HITS COMPS AVG IC SIGMAGE W HITS COMPS AVG IC SIGMAGE									
		2 1379 35532 1.009 0.23 27 122 2457 1.291 2.88									
		3 936 23625 1.030 0.84 28 90 2366 0.989 -0.14									
		4 685 17672 1.008 0.14 29 97 2275 1.109 1.06									
		5 566 14100 1.044 0.98 30 79 2196 0.935 -0.61									
		6 455 11718 1.010 0.15 31 78 2118 0.958 -0.41									
		7 408 10017 1.059 1.12 32 82 2046 1.042 0.35									
		8 341 8742 1.014 0.21 33 81 1980 1.064 0.55									
		9 329 7749 1.104 1.82 34 66 1914 0.897 -0.95									
		10 284 6956 1.062 1.00 35 86 1855 1.205 1.82									
		11 242 6307 0.998 -0.08 36 62 1800 0.896 -0.96									
		12 205 5766 0.924 -1.19 37 57 1745 0.849 -1.23									
		13 186 5307 0.911 -1.38 38 73 1692 1.122 0.95									
		14 189 4914 1.000 -0.04 39 51 1647 0.805 -1.58									
		15 177 4575 1.006 0.04 40 77 1602 1.250 1.98									
		16 164 4278 0.997 -0.08 41 75 1557 1.252 1.99									
		17 151 4015 0.978 -0.33 42 55 1512 0.946 -0.46									
		18 153 3780 1.052 0.59 43 53 1476 0.934 -0.55									
		19 142 3572 1.034 0.37 44 51 1440 0.921 -0.66									
		20 143 3384 1.099 1.15 45 52 1404 0.963 -0.32									
		21 136 3213 1.101 1.08 46 41 1363 0.779 -1.57									
		22 110 3060 0.935 -0.75 47 55 1332 1.074 0.50									
		23 111 2920 0.988 -0.17 48 49 1302 0.978 -0.18									
		24 102 2790 0.951 -0.57 49 53 1274 1.082 0.55									
		25 114 2670 1.110 1.07 50 50 1246 1.043 0.28									
		26 88 2562 0.893 -1.10 51 45 1218 0.961 -0.29									

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	375	0	0.16	0.00	-0.4
5	374	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g u z f z Z 343
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 318 DITS 0

										HITS- OBSERVED	HITS EXPECTED
a	14										
b	16	IC TESTS FOR SIGNIFICANCE									
c	6	MONO IC	1.2298	SIGMAGE	10.3	318			2384	1938	
d	21	DIGRAPHIC TESTS									
e	12	DIGRAPH IC	2.902	SIGMAGE	16.4	317			215	74	
f	13	CUT A IC	3.444	SIGMAGE	10.6	159			64	19	
g	6	CUT B IC	4.251	SIGMAGE	14.0	158			78	18	
h	6	TRIGRAPHIC TESTS									
i	30	TRIGRAPH IC	30.04	SIGMAGE	48.9	316			85	2.83	
j	2	CUT A IC	25.00	SIGMAGE	13.6	106			8	0.32	
k	6	CUT B IC	35.48	SIGMAGE	19.3	105			11	0.31	
l	5	CUT C IC	38.71	SIGMAGE	21.1	105			12	0.31	
m	11	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	29	1 11 15	-1.0	12	21	14	1.8	23	18	14	
p	9	2 10 15	-1.3	13	9	14	-1.4	24	36	14	
q	11	3 6 15	-2.3	14	13	14	-0.3	25	8	14	
r	17	4 28 15	3.5	15	9	14	-1.4	26	11	14	
s	7	5 12 15	-0.7	16	32	14	4.8	27	20	14	
t	8	6 18 15	0.9	17	9	14	-1.4	28	27	14	
u	14	7 6 15	-2.3	18	13	14	-0.3	29	6	14	
v	15	8 26 15	3.1	19	12	14	-0.6	30	11	14	
w	5	9 5 15	-2.6	20	20	14	1.6	31	16	13	
x	9	10 13 14	-0.4	21	9	14	-1.4	32	16	13	
y	16	11 8 14	-1.7	22	20	14	1.7	33	13	13	
z	17	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1350	25122	1.397	5.34	27	87	1716	1.318	0.70
3	741	16695	1.154	-1.98	28	107	1650	1.686	3.65
4	833	12482	1.735	11.11	29	68	1585	1.115	-0.92
5	477	9954	1.246	0.32	30	76	1530	1.292	0.50
6	413	8268	1.299	1.24	31	66	1475	1.163	-0.54
7	330	7065	1.214	-0.27	32	83	1422	1.518	2.30
8	451	6162	1.903	10.77	33	46	1377	0.869	-2.53
9	226	5460	1.076	-2.31	34	72	1332	1.405	1.23
10	271	4898	1.439	2.93	35	56	1287	1.131	-0.69
11	218	4438	1.277	0.61	36	58	1248	1.208	-0.15
12	251	4056	1.609	4.93	37	41	1212	0.880	-2.45
13	172	3732	1.198	-0.38	38	60	1176	1.327	0.68
14	179	3454	1.347	1.40	39	49	1140	1.118	-0.78
15	145	3213	1.173	-0.63	40	88	1106	2.069	5.87
16	207	3002	1.793	6.19	41	37	1078	0.892	-2.37
17	124	2817	1.144	-0.95	42	55	1050	1.362	0.92
18	117	2652	1.147	-0.83	43	42	1022	1.068	-0.97
19	129	2504	1.339	1.09	44	80	994	2.093	5.18
20	164	2370	1.799	5.69	45	43	966	1.157	-0.44
21	97	2250	1.121	-1.09	46	55	942	1.518	1.73
22	124	2142	1.505	2.48	47	38	921	1.073	-0.94
23	104	2041	1.325	0.86	48	47	900	1.358	0.77
24	126	1950	1.680	4.05	49	40	879	1.183	-0.28
25	90	1866	1.254	0.22	50	50	858	1.515	1.71
26	89	1788	1.294	0.58	51	27	837	0.839	-2.35

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	315	50	0.10	462.04	151.9
5	314	26	0.01	6286.44	405.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	84	80	f u m r
4	84	168	f u m r
4	164	28	f u m r
4	164	88	f u m r
4	192	60	f u m r
4	1	107	g u z f
4	1	183	g u z f
4	108	76	g u z f
4	229	34	i q o t
5	83	108	n f u m r
4	40	136	n o v i
4	40	220	o v i
4	176	84	n o v i
9	31	200	o t i b v v o d x
8	32	96	t i b v v o d x
8	32	176	t i b v v o d x
8	128	80	t i b v v o d x
8	128	104	t i b v v o d x
8	208	24	t i b v v o d x
4	244	59	t o i b
4	5	223	z i q o
4	116	24	z o f c
4	116	195	z o f c
4	140	171	z o f c

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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16b

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT n t v p q Z 103
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 335 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	12						
b	11	IC TESTS FOR SIGNIFICANCE					
c	13	MONO IC 0.9811	SIGMAGE	-0.9	335	2111	2151
d	14	DIGRAPHIC TESTS					
e	13	DIGRAPH IC 0.972	SIGMAGE	-0.5	334	81	82
f	10	CUT A IC 0.927	SIGMAGE	-0.3	167	19	21
g	13	CUT B IC 1.317	SIGMAGE	1.4	167	27	21
h	8	TRIGRAPHIC TESTS					
i	5	TRIGRAPH IC 1.27	SIGMAGE	0.5	333	4	3.15
j	13	CUT A IC 2.86	SIGMAGE	1.1	111	1	0.35
k	14	CUT B IC 0.00	SIGMAGE	-0.6	111	0	0.35
l	16	CUT C IC 0.00	SIGMAGE	-0.6	111	0	0.35
m	12	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	12	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE					
o	12	1 19 13 1.8 12 18 12 1.7 23 13 12 0.3					
p	13	2 17 13 1.2 13 10 12 -0.7 24 13 12 0.4					
q	16	3 11 13 -0.5 14 17 12 1.4 25 7 12 -1.4					
r	20	4 13 13 0.1 15 17 12 1.4 26 14 12 0.7					
s	9	5 14 13 0.4 16 9 12 -0.9 27 12 12 0.1					
t	11	6 9 13 -1.0 17 16 12 1.1 28 12 12 0.1					
u	13	7 17 12 1.3 18 13 12 0.3 29 15 12 1.0					
v	11	8 11 12 -0.4 19 15 12 0.9 30 11 12 -0.2					
w	16	9 8 12 -1.3 20 11 12 -0.3 31 11 12 -0.2					
x	15	10 15 12 0.8 21 9 12 -0.9 32 16 12 1.3					
y	18	11 11 12 -0.4 22 13 12 0.3 33 15 11 1.1					
z	15	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1058	27889	0.986	0.17	27	75	1914	1.019	0.34
3	708	18537	0.993	0.32	28	70	1837	0.991	0.09
4	525	13861	0.985	0.10	29	76	1771	1.116	1.08
5	421	11055	0.990	0.19	30	53	1705	0.808	-1.38
6	349	9185	0.988	0.13	31	67	1645	1.059	0.62
7	311	7849	1.030	0.88	32	60	1590	0.981	0.00
8	252	6847	0.957	-0.41	33	55	1535	0.932	-0.39
9	212	6068	0.908	-1.17	34	49	1485	0.858	-0.98
10	214	5445	1.022	0.62	35	55	1440	0.993	0.10
11	194	4935	1.022	0.57	36	41	1395	0.764	-1.74
12	177	4509	1.021	0.52	37	52	1350	1.001	0.14
13	149	4150	0.933	-0.62	38	40	1312	0.793	-1.32
14	151	3841	1.022	0.49	39	43	1276	0.876	-0.74
15	123	3575	0.895	-1.03	40	46	1240	0.965	-0.11
16	130	3340	1.012	0.37	41	49	1204	1.058	0.54
17	118	3135	0.979	-0.02	42	45	1169	1.001	0.14
18	105	2952	0.925	-0.62	43	38	1141	0.866	-0.81
19	96	2788	0.895	-0.95	44	47	1113	1.098	0.82
20	99	2640	0.975	-0.06	45	36	1085	0.863	-0.83
21	86	2505	0.893	-0.88	46	40	1057	0.984	0.02
22	98	2385	1.068	0.87	47	43	1029	1.086	0.63
23	90	2275	1.029	0.48	48	40	1002	1.038	0.34
24	80	2171	0.958	-0.21	49	39	981	1.034	0.32
25	85	2080	1.063	0.74	50	43	960	1.165	1.10
26	80	1992	1.044	0.57	51	38	939	1.052	0.43

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	332	0	0.13	0.00	-0.4
5	331	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT c m b k a Z 312

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 377 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	17										
b	21	IC TESTS FOR SIGNIFICANCE									
c	23	MONO IC 1.0110 SIGMAGE	0.5	377					2756	2726	
d	12	DIGRAPHIC TESTS									
e	15	DIGRAPH IC 0.911 SIGMAGE	-0.9	376				95	104		
f	11	CUT A IC 0.961 SIGMAGE	-0.2	188				25	26		
g	19	CUT B IC 0.808 SIGMAGE	-1.0	188				21	26		
h	9	TRIGRAPHIC TESTS									
i	16	TRIGRAPH IC 0.25 SIGMAGE	-1.5	375				1	3.99		
j	13	CUT A IC 0.00 SIGMAGE	-0.7	125				0	0.44		
k	15	CUT B IC 0.00 SIGMAGE	-0.7	125				0	0.44		
l	14	CUT C IC 0.00 SIGMAGE	-0.7	125				0	0.44		
m	19	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	14	1 18 15 0.9 12 9 14 -1.4 23 9 14 -1.3									
p	10	2 15 15 0.1 13 14 14 -0.1 24 15 14 0.3									
q	15	3 12 15 -0.7 14 13 14 -0.3 25 15 14 0.4									
r	11	4 15 15 0.1 15 13 14 -0.3 26 20 14 1.7									
s	8	5 13 15 -0.4 16 12 14 -0.6 27 14 14 0.1									
t	15	6 15 14 0.1 17 13 14 -0.3 28 23 14 2.6									
u	11	7 14 14 -0.1 18 14 14 0.0 29 14 14 0.1									
v	20	8 17 14 0.7 19 20 14 1.6 30 19 14 1.5									
w	17	9 9 14 -1.4 20 8 14 -1.6 31 13 13 -0.1									
x	10	10 10 14 -1.2 21 16 14 0.6 32 11 13 -0.7									
y	9	11 19 14 1.3 22 10 14 -1.1 33 17 13 1.0									
z	20	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
		W HITS COMPS AVG IC SIGMAGE W HITS COMPS AVG IC SIGMAGE									
		2 1348 35344 0.992 -0.72 27 108 2444 1.149 1.38									
		3 899 25500 0.995 -0.50 28 92 2353 1.017 0.06									
		4 687 17578 1.016 0.14 29 91 2262 1.046 0.35									
		5 541 14025 1.003 -0.19 30 87 2184 1.036 0.23									
		6 434 11656 0.968 -0.95 31 69 2106 0.852 -1.43									
		7 401 9964 1.046 0.70 32 73 2035 0.933 -0.70									
		8 337 8695 1.008 -0.06 33 69 1969 0.911 -0.90									
		9 277 7708 0.934 -1.39 34 72 1903 0.984 -0.24									
		10 241 6919 0.906 -1.79 35 55 1845 0.775 -2.12									
		11 268 6273 1.111 1.60 36 53 1790 0.770 -2.17									
		12 203 5735 0.920 -1.37 37 66 1735 0.989 -0.18									
		13 200 5278 0.985 -0.39 38 52 1683 0.803 -1.66									
		14 181 4888 0.963 -0.67 39 68 1638 1.079 0.54									
		15 187 4550 1.069 0.81 40 69 1593 1.126 0.92									
		16 160 4255 0.978 -0.43 41 64 1548 1.075 0.51									
		17 152 3993 0.990 -0.27 42 44 1504 0.761 -2.00									
		18 124 3760 0.857 -1.85 43 68 1468 1.204 1.54									
		19 128 3553 0.937 -0.89 44 53 1432 0.962 -0.39									
		20 127 3366 0.981 -0.36 45 57 1396 1.062 0.41									
		21 126 3196 1.025 0.15 46 50 1360 0.956 -0.39									
		22 110 3043 0.940 -0.78 47 71 1324 1.394 2.68									
		23 99 2904 0.886 -1.38 48 41 1295 0.823 -1.32									
		24 95 2775 0.890 -1.33 49 57 1267 1.170 1.11									
		25 103 2655 1.009 -0.02 50 43 1239 0.902 -0.76									
		26 114 2548 1.163 1.52 51 49 1211 1.052 0.29									

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	374	0	0.16	0.00	-0.4
5	373	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g z p e q Z 077
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 480 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	10										
b	15	IC TESTS FOR SIGNIFICANCE									
c	22	MONO IC	0.9911	SIGMAGE	-0.6	480			4382	4421	
d	19	DIGRAPHIC TESTS									
e	13	DIGRAPH IC	1.069	SIGMAGE	0.9	479			181	169	
f	22	CUT A IC	1.037	SIGMAGE	0.2	240			44	42	
g	19	CUT B IC	1.188	SIGMAGE	1.2	239			50	42	
h	12	TRIGRAPHIC TESTS									
i	18	TRIGRAPH IC	1.54	SIGMAGE	1.4	478			10	6.49	
j	21	CUT A IC	2.78	SIGMAGE	1.5	160			2	0.72	
k	19	CUT B IC	1.41	SIGMAGE	0.3	159			1	0.71	
l	21	CUT C IC	1.41	SIGMAGE	0.3	159			1	0.71	
m	26	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	16	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	21	1 17 18	-0.3	12	11	18	-1.6	23	23	17	1.4
p	23	2 12 18	-1.5	13	19	18	0.3	24	27	17	2.4
q	16	3 20 18	0.4	14	11	18	-1.6	25	13	17	-1.1
r	16	4 17 18	-0.3	15	16	18	-0.4	26	15	17	-0.6
s	16	5 14 18	-1.0	16	21	18	0.8	27	17	17	-0.1
t	21	6 12 18	-1.4	17	10	18	-1.8	28	15	17	-0.5
u	16	7 24 18	1.4	18	20	18	0.6	29	20	17	0.7
v	19	8 25 18	1.7	19	19	18	0.4	30	10	17	-1.8
w	17	9 22 18	1.0	20	18	17	0.1	31	20	17	0.7
x	20	10 19 18	0.3	21	18	17	0.1	32	25	17	2.0
y	16	11 19 18	0.3	22	16	17	-0.3	33	18	17	0.3
z	26	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2171	57360	0.984	-0.34	27	162	4029	1.045	0.70
3	1531	38160	1.043	2.03	28	154	3876	1.033	0.50
4	1145	28560	1.042	1.73	29	143	3736	0.995	0.05
5	861	22800	0.982	-0.27	30	133	3600	0.961	-0.36
6	734	18960	1.007	0.45	31	132	3480	0.986	-0.06
7	621	16218	0.996	0.13	32	142	3360	1.099	1.30
8	561	14160	1.030	0.94	33	137	3255	1.094	1.13
9	497	12561	1.029	0.84	34	110	3150	0.908	-0.91
10	431	11280	0.993	0.04	35	141	3055	1.200	2.30
11	388	10234	0.986	-0.10	36	112	2964	0.982	-0.10
12	377	9360	1.047	1.06	37	91	2874	0.823	-1.85
13	355	8622	1.071	1.52	38	114	2796	1.060	0.76
14	302	7990	0.983	-0.14	39	136	2718	1.301	3.10
15	275	7440	0.961	-0.51	40	92	2640	0.906	-0.85
16	278	6960	1.039	0.82	41	88	2574	0.889	-1.02
17	226	6538	0.899	-1.47	42	95	2508	0.985	-0.06
18	239	6162	1.008	0.27	43	108	2442	1.150	1.59
19	227	5825	1.013	0.33	44	102	2380	1.114	1.23
20	213	5520	1.003	0.18	45	85	2325	0.951	-0.40
21	205	5247	1.016	0.38	46	85	2270	0.974	-0.17
22	200	4998	1.040	0.69	47	113	2215	1.326	3.02
23	185	4770	1.008	0.24	48	74	2160	0.891	-0.90
24	175	4560	0.998	0.10	49	81	2115	0.996	0.05
25	157	4370	0.934	-0.74	50	82	2070	1.030	0.35
26	153	4194	0.948	-0.56	51	72	2025	0.924	-0.60

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	477	0	0.24	0.00	-0.5
5	476	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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#11

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT g q n k w Z 369

for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 473 DITS 3

										HITS OBSERVED	HITS EXPECTED
a	21										
b	16	IC TESTS FOR SIGNIFICANCE									
c	16	MONO IC	0.9983	SIGMAGE	-0.1	473			4286	4293	
d	19	DIGRAPHIC TESTS									
e	14	DIGRAPH IC	1.034	SIGMAGE	0.4	472			170	164	
f	24	CUT A IC	0.853	SIGMAGE	-0.9	236			35	41	
g	18	CUT B IC	1.048	SIGMAGE	0.3	236			43	41	
h	14	TRIGRAPHIC TESTS									
i	19	TRIGRAPH IC	1.43	SIGMAGE	1.1	471			9	6.30	
j	25	CUT A IC	0.00	SIGMAGE	-0.8	157			0	0.70	
k	30	CUT B IC	1.43	SIGMAGE	0.4	157			1	0.70	
l	12	CUT C IC	2.86	SIGMAGE	1.6	157			2	0.70	
m	14	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	19	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	19	1 24 18	1.5	12 12 18	-1.3	23 24 17	1.7				
p	14	2 12 18	-1.4	13 26 17	2.1	24 15 17	-0.5				
q	16	3 16 18	-0.4	14 19 17	0.4	25 19 17	0.5				
r	21	4 18 18	0.0	15 17 17	-0.1	26 23 17	1.5				
s	17	5 28 18	2.5	16 14 17	-0.8	27 13 17	-1.0				
t	14	6 21 18	0.8	17 18 17	0.2	28 9 17	-2.0				
u	13	7 14 18	-0.9	18 22 17	1.2	29 15 17	-0.5				
v	21	8 18 18	0.1	19 18 17	0.2	30 21 17	1.0				
w	22	9 17 18	-0.2	20 17 17	-0.1	31 17 17	0.1				
x	17	10 16 18	-0.4	21 18 17	0.2	32 11 17	-1.4				
y	17	11 15 18	-0.6	22 22 17	1.2	33 13 17	-0.9				
z	21	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2131	55696	0.995	-0.14	27	143	3910	0.951	-0.61
3	1387	37052	0.973	-0.98	28	123	3760	0.851	-1.76
4	1037	27730	0.972	-0.86	29	147	3624	1.055	0.68
5	875	22137	1.028	0.90	30	125	3495	0.930	-0.82
6	677	18408	0.956	-1.13	31	154	3375	1.186	2.26
7	579	15745	0.956	-1.05	32	119	3262	0.948	-0.55
8	514	13747	0.972	-0.60	33	102	3157	0.840	-1.74
9	449	12194	0.957	-0.90	34	138	3055	1.174	1.94
10	416	10951	0.988	-0.21	35	103	2964	0.904	-1.03
11	386	9933	1.010	0.24	36	110	2873	0.995	-0.03
12	322	9087	0.921	-1.46	37	113	2790	1.053	0.61
13	335	8370	1.041	0.77	38	96	2712	0.920	-0.78
14	280	7755	0.939	-1.06	39	114	2634	1.125	1.27
15	271	7223	0.975	-0.39	40	100	2563	1.014	0.16
16	248	6757	0.954	-0.70	41	88	2497	0.916	-0.82
17	273	6345	1.119	1.94	42	86	2431	0.920	-0.78
18	228	5980	0.991	-0.11	43	71	2365	0.781	-2.17
19	197	5652	0.906	-1.38	44	89	2310	1.002	0.04
20	198	5359	0.961	-0.56	45	83	2255	0.957	-0.41
21	185	5093	0.944	-0.76	46	88	2200	1.040	0.38
22	201	4851	1.077	1.11	47	70	2145	0.848	-1.35
23	198	4630	1.112	1.60	48	76	2097	0.942	-0.50
24	156	4427	0.916	-1.07	49	72	2052	0.912	-0.77
25	179	4239	1.098	1.30	50	85	2007	1.101	0.93
26	154	4068	0.984	-0.18	51	79	1962	1.047	0.44

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	470	0	0.25	0.00	-0.5
5	469	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g y k p v Z 262
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 384 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	16	IC TESTS FOR SIGNIFICANCE									
c	19	MONO IC	1.0947	SIGMAGE	5.1	384			3096	2828	
d	9	DIGRAPHIC TESTS									
e	31	DIGRAPH IC	5.018	SIGMAGE	41.9	383			543	108	
f	13	CUT A IC	5.493	SIGMAGE	23.5	192			149	27	
g	16	CUT B IC	9.686	SIGMAGE	45.2	191			260	27	
h	10	TRIGRAPHIC TESTS									
i	18	TRIGRAPH IC	74.15	SIGMAGE	149.0	382			307	4.14	
j	17	CUT A IC	67.39	SIGMAGE	45.3	128			31	0.46	
k	20	CUT B IC	58.70	SIGMAGE	39.1	127			27	0.46	
l	6	CUT C IC	65.22	SIGMAGE	43.5	127			30	0.46	
m	16	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	16	1 5 16 -2.8 12 34 16 4.7 23 7 15 -2.1									
p	7	2 8 16 -2.1 13 10 16 -1.4 24 13 15 -0.6									
q	21	3 14 16 -0.5 14 16 16 0.1 25 6 15 -2.4									
r	10	4 38 16 5.6 15 10 15 -1.4 26 6 15 -2.4									
s	14	5 3 16 -3.3 16 37 15 5.6 27 11 15 -1.1									
t	10	6 10 16 -1.5 17 10 15 -1.4 28 25 15 2.7									
u	13	7 7 16 -2.3 18 8 15 -1.9 29 11 15 -1.0									
v	11	8 32 16 4.2 19 11 15 -1.1 30 11 15 -1.0									
w	19	9 1 16 -3.8 20 27 15 3.1 31 11 15 -1.0									
x	10	10 13 16 -0.7 21 10 15 -1.4 32 27 15 3.2									
y	26	11 11 16 -1.2 22 7 15 -2.1 33 8 15 -1.8									
z	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1995	36672	1.414	12.12	27	92	2541	0.941	-1.54
3	985	24384	1.050	-1.40	28	214	2444	2.277	11.82
4	1443	18240	2.057	25.97	29	98	2353	1.083	-0.12
5	591	14554	1.056	-0.94	30	92	2268	1.055	-0.40
6	626	12096	1.346	5.52	31	69	2190	0.819	-2.48
7	468	10341	1.177	1.64	32	181	2112	2.228	10.20
8	705	9024	2.031	17.78	33	85	2046	1.080	-0.14
9	301	8001	0.978	-2.11	34	117	1980	1.536	3.97
10	363	7182	1.314	3.72	35	93	1915	1.263	1.51
11	236	6511	0.942	-2.45	36	135	1860	1.887	7.13
12	452	5952	1.974	13.19	37	77	1805	1.109	0.13
13	213	5481	1.010	-1.28	38	87	1750	1.293	1.58
14	309	5076	1.583	6.83	39	66	1701	1.009	-0.69
15	156	4725	0.858	-3.32	40	132	1656	2.072	7.82
16	379	4416	2.231	14.77	41	51	1611	0.823	-2.18
17	175	4147	1.097	0.03	42	86	1566	1.428	2.66
18	193	3906	1.285	2.47	43	54	1524	0.921	-1.39
19	147	3690	1.036	-0.71	44	104	1488	1.817	5.78
20	248	3496	1.844	8.99	45	43	1452	0.770	-2.60
21	140	3321	1.096	0.01	46	77	1416	1.414	2.55
22	155	3162	1.275	1.98	47	105	1380	1.978	6.18
23	127	3016	1.095	0.00	48	126	1344	2.438	9.40
24	212	2880	1.914	9.01	49	54	1316	1.067	-0.20
25	105	2760	0.989	-1.17	50	63	1288	1.272	1.24
26	128	2646	1.258	1.63	51	49	1260	1.011	-0.59

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	381	201	0.15	1270.78	506.1
5	380	115	0.01	18374.91	1433.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
14	42	280	b m h y q w v e a w j i s c
6	42	336	b m h y q w
4	29	151	c e l r
4	180	48	c e l r
4	80	132	c e r x
40	80	188	c e r x m o v h t i m f p i
			r g s e d x
4	212	56	c e r x
4	172	192	c y k m
4	172	196	c y k m
4	364	4	c y k m
16	25	199	f a n w c e l r h y q w j u
			f o
4	1	16	g y k p
4	33	11	h y q w
4	33	87	h y q w
5	33	283	h y q w j
4	33	291	h y q w
5	33	339	h y q w j
4	33	347	h y q w
4	44	76	h y q w
4	44	188	h y q w
4	44	272	h y q w
4	120	112	h y q w
4	120	196	h y q w
4	120	204	h y q w
4	120	252	h y q w
4	120	260	h y q w
5	232	84	h y q w j
4	232	92	h y q w
5	232	140	h y q w j
4	232	148	h y q w
4	316	8	h y q w
12	316	56	h y q w j i b m h y q w
4	316	64	h y q w
4	144	44	j i b m
4	144	56	j i b m
4	144	76	j i b m
4	144	96	j i b m
4	144	176	j i b m
4	144	232	j i b m
4	188	12	j i b m
4	188	52	j i b m
4	188	132	j i b m
4	188	188	j i b m
4	200	20	j i b m
4	200	40	j i b m
4	220	20	j i b m
4	220	100	j i b m
4	220	156	j i b m
4	240	80	j i b m
4	240	136	j i b m

MORE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t w m u o 2 011
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 358 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	32												
b	4	IC TESTS FOR SIGNIFICANCE											
c	15	MONO IC	1.8069	SIGMAGE	40.8	358				4441	2457		
d	4	DIGRAPHIC TESTS											
e	52	DIGRAPH IC	2.989	SIGMAGE	19.3	357			281		94		
f	4	CUT A IC	3.140	SIGMAGE	10.4	179			74		24		
g	5	CUT B IC	2.961	SIGMAGE	9.5	178			69		23		
h	5	TRIGRAPHIC TESTS											
i	16	TRIGRAPH IC	5.56	SIGMAGE	8.7	356			20		3.60		
j	0	CUT A IC	5.00	SIGMAGE	2.5	119			2		0.40		
k	2	CUT B IC	7.50	SIGMAGE	4.1	119			3		0.40		
l	10	CUT C IC	0.00	SIGMAGE	-0.6	118			0		0.39		
m	22	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	20	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	37	1	23	25	-0.3	12	21	24	-0.6	23	24	23	0.2
p	23	2	28	25	0.7	13	33	24	2.0	24	18	23	-1.1
q	0	3	27	24	0.5	14	21	24	-0.6	25	22	23	-0.2
r	31	4	27	24	0.5	15	22	24	-0.4	26	20	23	-0.6
s	18	5	28	24	0.8	16	37	24	2.9	27	13	23	-2.1
t	22	6	13	24	-2.4	17	15	24	-1.8	28	18	23	-1.0
u	10	7	16	24	-1.7	18	18	23	-1.2	29	18	23	-1.0
v	5	8	27	24	0.6	19	13	23	-2.2	30	20	23	-0.6
w	6	9	28	24	0.8	20	17	23	-1.4	31	25	23	0.5
x	6	10	29	24	1.1	21	20	23	-0.7	32	21	22	-0.3
y	0	11	15	24	-1.9	22	18	23	-1.1	33	20	22	-0.5
z	9	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											
		W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE		
		2	2264	31862	1.847	1.44	27	133	2197	1.574	-2.10		
		3	1467	21182	1.801	-0.17	28	123	2112	1.514	-2.64		
		4	1127	15842	1.850	1.08	29	152	2034	1.943	1.22		
		5	890	12638	1.831	0.55	30	145	1958	1.925	1.06		
		6	755	10502	1.869	1.30	31	129	1892	1.773	-0.31		
		7	591	8976	1.712	-1.81	32	121	1826	1.723	-0.76		
		8	576	7832	1.912	1.89	33	129	1765	1.900	0.74		
		9	462	6942	1.730	-1.31	34	115	1710	1.749	-0.46		
		10	442	6230	1.845	0.61	35	121	1655	1.901	0.75		
		11	405	5648	1.864	0.86	36	125	1602	2.029	1.78		
		12	378	5162	1.904	1.36	37	119	1557	1.987	1.44		
		13	340	4752	1.860	0.74	38	95	1512	1.634	-1.38		
		14	285	4400	1.684	-1.60	39	112	1467	1.985	1.42		
		15	288	4094	1.829	0.29	40	111	1424	2.027	1.76		
		16	283	3828	1.922	1.38	41	94	1388	1.761	-0.37		
		17	245	3591	1.774	-0.40	42	84	1352	1.615	-1.34		
		18	247	3382	1.899	1.10	43	92	1316	1.818	0.08		
		19	192	3195	1.562	-2.70	44	99	1280	2.011	1.43		
		20	216	3026	1.856	0.54	45	82	1246	1.711	-0.67		
		21	178	2873	1.611	-2.16	46	90	1218	1.921	0.80		
		22	212	2736	2.015	2.08	47	84	1190	1.835	0.20		
		23	190	2610	1.893	0.86	48	90	1162	2.014	1.45		
		24	186	2492	1.941	1.34	49	61	1134	1.399	-2.86		
		25	161	2387	1.754	-0.53	50	75	1106	1.763	-0.31		
		26	160	2288	1.818	0.11	51	79	1078	1.905	0.69		

POLYGRAPHIC HITS AND IC

	LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
	4	355	0	0.13	0.00	-0.4
	5	354	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT c y t v w Z 161
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 312 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	14										
b	3	IC TESTS FOR SIGNIFICANCE									
c	10	MONO IC	1.3221	SIGMAGE	14.2	312			2467	1866	
d	12	DIGRAPHIC TESTS									
e	14	DIGRAPH IC	4.333	SIGMAGE	28.2	311			309	71	
f	17	CUT A IC	9.841	SIGMAGE	37.5	156			176	18	
g	13	CUT B IC	6.853	SIGMAGE	24.7	155			121	18	
h	6	TRIGRAPHIC TESTS									
i	33	TRIGRAPH IC	60.81	SIGMAGE	98.9	310			166	2.73	
j	1	CUT A IC	40.00	SIGMAGE	21.6	104			12	0.30	
k	4	CUT B IC	40.00	SIGMAGE	21.4	103			12	0.30	
l	6	CUT C IC	53.33	SIGMAGE	28.7	103			16	0.30	
m	22	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	8	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	11	1 7 16 -2.3 12 28 15 3.3 23 8 15 -1.8									
p	7	2 20 16 1.1 13 9 15 -1.6 24 22 15 2.0									
q	16	3 13 16 -0.7 14 14 15 -0.3 25 5 15 -2.6									
r	12	4 32 16 4.2 15 9 15 -1.6 26 12 15 -0.7									
s	3	5 8 16 -2.0 16 43 15 7.4 27 13 15 -0.4									
t	15	6 10 16 -1.5 17 3 15 -3.2 28 22 14 2.0									
u	28	7 12 16 -0.9 18 13 15 -0.5 29 10 14 -1.2									
v	6	8 39 16 6.1 19 12 15 -0.8 30 12 14 -0.6									
w	16	9 9 15 -1.7 20 28 15 3.5 31 7 14 -2.0									
x	4	10 13 15 -0.6 21 12 15 -0.8 32 20 14 1.6									
y	20	11 6 15 -2.5 22 16 15 0.3 33 5 14 -2.5									
z	11	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1808	24180	1.944	19.28	27	69	1650	1.087	-1.88
3	803	16068	1.299	-0.58	28	208	1584	3.414	16.74
4	1211	12012	2.621	28.58	29	71	1525	1.210	-0.90
5	468	9579	1.270	-1.04	30	90	1470	1.592	2.16
6	564	7956	1.843	9.38	31	66	1415	1.213	-0.87
7	417	6798	1.595	4.64	32	134	1368	2.547	8.58
8	595	5928	2.610	19.32	33	51	1323	1.002	-2.24
9	241	5253	1.193	-1.94	34	90	1278	1.831	3.56
10	328	4712	1.810	6.83	35	77	1236	1.620	2.09
11	199	4270	1.212	-1.43	36	108	1200	2.340	7.13
12	376	3900	2.507	15.41	37	59	1164	1.318	-0.03
13	176	3588	1.275	-0.56	38	87	1128	2.005	4.78
14	302	3322	2.364	12.50	39	50	1092	1.190	-0.92
15	144	3090	1.212	-1.21	40	93	1064	2.273	6.66
16	291	2888	2.620	14.28	41	48	1036	1.205	-0.70
17	135	2709	1.296	-0.26	42	77	1008	1.986	3.98
18	163	2550	1.662	3.40	43	44	980	1.167	-0.93
19	126	2408	1.360	0.38	44	80	952	2.185	5.18
20	215	2280	2.452	11.30	45	37	927	1.038	-1.70
21	117	2163	1.406	0.76	46	60	906	1.722	2.40
22	152	2058	1.920	5.38	47	32	885	0.940	-2.29
23	83	1963	1.099	-2.01	48	91	864	2.738	8.50
24	173	1872	2.403	9.73	49	47	843	1.450	0.77
25	76	1794	1.101	-1.99	50	53	822	1.676	2.12
26	121	1716	1.833	4.09	51	29	801	0.941	-2.29

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	309	112	0.11	1075.69	347.4
5	308	59	0.01	14814.06	936.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
5	17	16	b e t y m
12	77	84	c a z g q i q g r o w n
12	77	140	c a z g q i q g r o w n
12	77	196	c a z g q i q g r o w n
12	161	56	c a z g q i q g r o w n
12	161	112	c a z g q i q g r o w n
13	217	56	c a z g q i q g r o w n f
4	41	56	d i f m
4	41	64	d i f m
4	41	72	d i f m
4	41	88	d i f m
4	41	136	d i f m
4	41	144	d i f m
4	41	228	d i f m
4	97	8	d i f m
4	97	16	d i f m
4	97	32	d i f m
4	97	80	d i f m
4	97	88	d i f m
4	97	172	d i f m
4	105	8	d i f m
4	105	24	d i f m
4	105	72	d i f m
4	105	80	d i f m
4	105	164	d i f m
4	113	16	d i f m
4	113	64	d i f m
4	113	156	d i f m
4	129	48	d i f m
4	129	56	d i f m
4	177	8	d i f m
4	177	92	d i f m
4	185	84	d i f m
4	93	192	f a f p
4	133	96	f o p v
4	133	172	f o p v
8	229	76	f o p v r u w m
5	28	72	m h i z i
4	21	188	m u i u
4	21	228	m u i u
4	157	52	m u i u
4	157	92	m u i u
4	209	40	m u i u
4	193	100	m y y i
4	141	92	r u w m
4	141	168	r u w m
4	57	200	t u z r
5	128	140	u d i f m
4	5	8	w u e y
4	5	148	w u e y

MORE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT q p x u z Z 020

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 430 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	15										
b	20	IC TESTS FOR SIGNIFICANCE									
c	12	MONO IC	1.0120	SIGMAGE	0.7	430				3590	3547
d	12	DIGRAPHIC TESTS									
e	18	DIGRAPH IC	0.884	SIGMAGE	-1.4	429				120	136
f	17	CUT A IC	0.823	SIGMAGE	-1.0	215				28	34
g	13	CUT B IC	0.742	SIGMAGE	-1.5	214				25	34
h	8	TRIGRAPHIC TESTS									
i	25	TRIGRAPH IC	1.54	SIGMAGE	1.2	428				8	5.20
j	22	CUT A IC	1.72	SIGMAGE	0.5	143				1	0.58
k	12	CUT B IC	1.72	SIGMAGE	0.5	143				1	0.58
l	21	CUT C IC	1.75	SIGMAGE	0.6	142				1	0.57
m	13	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS
o	18	1	14	17	-0.7	12	21	16	1.2	23	16
p	14	2	20	17	0.8	13	14	16	-0.6	24	17
q	24	3	16	17	-0.2	14	15	16	-0.3	25	15
r	19	4	13	17	-0.9	15	18	16	0.5	26	16
s	16	5	18	17	0.4	16	11	16	-1.3	27	15
t	18	6	22	17	1.4	17	19	16	0.7	28	14
u	23	7	14	16	-0.6	18	20	16	1.0	29	14
v	14	8	9	16	-1.9	19	16	16	0.0	30	15
w	14	9	7	16	-2.4	20	14	16	-0.5	31	15
x	22	10	25	16	2.2	21	15	16	-0.2	32	19
y	16	11	15	16	-0.3	22	16	16	0.0	33	14
z	11	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
		W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
		2	1777	46010	1.004	-0.34	27	106	3210	0.859	-1.68
		3	1205	30602	1.024	0.42	28	122	3090	1.027	0.17
		4	884	22898	1.004	-0.24	29	115	2975	1.005	-0.08
		5	750	18275	1.067	1.49	30	125	2870	1.132	1.32
		6	597	15194	1.022	0.25	31	105	2769	0.986	-0.29
		7	483	12993	0.967	-1.04	32	100	2678	0.971	-0.41
		8	423	11342	0.970	-0.88	33	94	2587	0.945	-0.67
		9	394	10058	1.018	0.12	34	98	2508	1.016	0.04
		10	368	9030	1.060	0.91	35	97	2430	1.038	0.26
		11	309	8190	0.981	-0.56	36	95	2354	1.049	0.37
		12	290	7490	1.007	-0.09	37	85	2288	0.966	-0.46
		13	262	6897	0.988	-0.41	38	79	2222	0.924	-0.79
		14	245	6390	0.997	-0.24	39	85	2156	1.025	0.12
		15	255	5950	1.114	1.53	40	72	2100	0.891	-1.09
		16	200	5564	0.935	-1.16	41	88	2045	1.119	0.96
		17	213	5225	1.060	0.67	42	76	1990	0.993	-0.17
		18	201	4922	1.062	0.70	43	80	1935	1.075	0.57
		19	190	4653	1.062	0.70	44	3	1890	1.004	-0.07
		20	180	4410	1.061	0.64	45	77	1845	1.085	0.66
		21	150	4190	0.931	-1.05	46	73	1800	1.054	0.38
		22	151	3990	0.984	-0.36	47	71	1755	1.052	0.32
		23	150	3807	1.024	0.14	48	66	1712	1.002	-0.08
		24	128	3638	0.915	-1.16	49	60	1676	0.931	-0.65
		25	148	3485	1.104	1.10	50	73	1640	1.157	1.16
		26	127	3344	0.987	-0.30	51	61	1604	0.989	-0.18

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	427	0	0.19	0.00	-0.5
5	426	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT c l u d a Z 084
 for interpretation of this run call P l on x 3957

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MONO
COUNT

TOTAL 414 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	9										
b	11	IC TESTS FOR SIGNIFICANCE									
c	11	MONO IC 1.0298 SIGMAGE	1.7	414					3386	3288	
d	17	DIGRAPHIC TESTS									
e	10	DIGRAPH IC 1.176 SIGMAGE	2.0	413					148	126	
f	23	CUT A IC 0.951 SIGMAGE	-0.3	207					30	32	
g	14	CUT B IC 1.441 SIGMAGE	2.5	206					45	31	
h	14	TRIGRAPHIC TESTS									
i	12	TRIGRAPH IC 1.87 SIGMAGE	1.9	412					9	4.82	
j	15	CUT A IC 3.70 SIGMAGE	2.0	138					2	0.54	
k	16	CUT B IC 1.89 SIGMAGE	0.7	137					1	0.53	
l	20	CUT C IC 0.00 SIGMAGE	-0.7	137					0	0.53	
m	20	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	18	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	22	1 23 17 1.6 12 11 16 -1.3	23	21	16	1.4					
p	10	2 13 16 -0.9 13 20 16 1.0	24	11	16	-1.2					
q	13	3 18 16 0.4 14 24 16 2.0	25	17	16	0.4					
r	14	4 18 16 0.4 15 10 16 -1.5	26	11	16	-1.2					
s	31	5 19 16 0.7 16 12 16 -1.0	27	14	15	-0.4					
t	14	6 22 16 1.4 17 16 16 0.0	28	21	15	1.4					
u	18	7 19 16 0.7 18 15 16 -0.2	29	21	15	1.5					
v	13	8 15 16 -0.3 19 16 16 0.1	30	11	15	-1.1					
w	15	9 19 16 0.7 20 14 16 -0.5	31	16	15	0.2					
x	18	10 13 16 -0.8 21 16 16 0.1	32	18	15	0.7					
y	20	11 19 16 0.7 22 16 16 0.1	33	17	15	0.5					
z	16	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1671	42642	1.019	-0.45	27	119	2970	1.042	0.13
3	1110	28359	1.018	-0.41	28	120	2856	1.092	0.68
4	823	21218	1.008	-0.64	29	101	2751	0.955	-0.83
5	667	16933	1.024	-0.16	30	100	2652	0.980	-0.50
6	545	14076	1.007	-0.55	31	97	2561	0.985	-0.45
7	487	12036	1.052	0.48	32	92	2472	0.968	-0.62
8	408	10506	1.010	-0.42	33	113	2394	1.227	1.97
9	364	9315	1.016	-0.27	34	102	2316	1.145	1.15
10	331	8364	1.029	-0.02	35	100	2244	1.159	1.29
11	295	7585	1.011	-0.32	36	64	2178	0.764	-2.39
12	245	6936	0.918	-1.90	37	88	2112	1.083	0.48
13	233	6386	0.949	-1.30	38	77	2050	0.977	-0.48
14	239	5916	1.050	0.30	39	71	1995	0.925	-0.95
15	217	5508	1.024	-0.09	40	71	1940	0.952	-0.70
16	188	5150	0.949	-1.13	41	74	1885	1.021	-0.08
17	191	4836	1.027	-0.04	42	68	1836	0.963	-0.60
18	171	4554	0.976	-0.76	43	58	1791	0.842	-1.69
19	172	4305	1.039	0.12	44	68	1746	1.013	-0.14
20	149	4080	0.950	-1.04	45	77	1701	1.177	1.18
21	154	3876	1.033	0.04	46	64	1656	1.005	-0.20
22	151	3690	1.064	0.41	47	75	1620	1.204	1.39
23	135	3519	0.997	-0.40	48	61	1584	1.001	-0.23
24	123	3366	0.950	-0.96	49	64	1548	1.075	0.36
25	127	3224	1.024	-0.07	50	58	1512	0.997	-0.26
26	110	3090	0.926	-1.14	51	62	1476	1.092	0.50

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	411	0	0.19	0.00	-0.4
5	410	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT W g o a r Z 107
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 340 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	33												
b	3	IC TESTS FOR SIGNIFICANCE							TOTAL				
c	22	MONO IC 1.7342 SIGMAGE							35.3 340	3844	2216		
d	9	DIGRAPHIC TESTS											
e	33	DIGRAPH IC 3.115 SIGMAGE							19.5 339	264	85		
f	5	CUT A IC 2.918 SIGMAGE							8.9 170	62	21		
g	3	CUT B IC 3.048 SIGMAGE							9.4 169	64	21		
h	6	TRIGRAPHIC TESTS											
i	24	TRIGRAPH IC 5.86 SIGMAGE							8.8 338	19	3.24		
j	0	CUT A IC 5.56 SIGMAGE							2.7 113	2	0.36		
k	2	CUT B IC 13.89 SIGMAGE							7.8 113	5	0.36		
l	15	CUT C IC 2.86 SIGMAGE							1.1 112	1	0.35		
m	35	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	19	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	34	1	29	23	1.4	12	33	22	2.4	23	17	21	-1.0
p	9	2	35	23	2.7	13	33	22	2.5	24	24	21	0.6
q	2	3	17	23	-1.2	14	27	22	1.1	25	26	21	1.1
r	18	4	18	23	-1.0	15	28	22	1.4	26	24	21	0.7
s	15	5	20	22	-0.5	16	22	22	0.1	27	27	21	1.4
t	29	6	24	22	0.4	17	19	22	-0.6	28	20	21	-0.2
u	11	7	22	22	-0.1	18	20	22	-0.4	29	27	21	1.4
v	1	8	25	22	0.6	19	23	22	0.3	30	16	21	-1.1
w	5	9	28	22	1.3	20	21	21	-0.1	31	19	21	-0.4
x	1	10	21	22	-0.2	21	24	21	0.6	32	13	21	-1.7
y	6	11	30	22	1.8	22	26	21	1.1	33	14	21	-1.5
z	0	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1892	28730	1.712	-0.75	27	143	1974	1.883	1.34
3	1245	19097	1.695	-1.09	28	114	1896	1.563	-1.54
4	941	14280	1.713	-0.50	29	108	1826	1.538	-1.76
5	766	11390	1.749	0.32	30	99	1760	1.463	-2.17
6	610	9464	1.676	-1.10	31	116	1695	1.779	0.36
7	494	8088	1.588	-2.63	32	96	1640	1.522	-1.70
8	477	7056	1.758	0.41	33	94	1585	1.542	-1.54
9	423	6253	1.759	0.40	34	94	1530	1.597	-1.10
10	368	5610	1.706	-0.42	35	95	1485	1.663	-0.57
11	326	5085	1.667	-0.94	36	92	1440	1.661	-0.58
12	312	4648	1.745	0.15	37	86	1395	1.603	-1.05
13	304	4277	1.848	1.48	38	97	1352	1.865	0.92
14	238	3960	1.563	-2.22	39	92	1316	1.818	0.59
15	226	3685	1.595	-1.67	40	94	1280	1.909	1.23
16	217	3444	1.638	-1.15	41	68	1244	1.421	-2.19
17	206	3230	1.658	-0.84	42	81	1208	1.743	0.06
18	194	3042	1.658	-0.84	43	78	1176	1.724	-0.07
19	198	2873	1.792	0.64	44	65	1148	1.472	-1.83
20	187	2720	1.788	0.54	45	61	1120	1.416	-2.23
21	170	2584	1.711	-0.23	46	62	1092	1.476	-1.81
22	152	2460	1.607	-1.27	47	80	1064	1.955	1.55
23	142	2345	1.574	-1.60	48	62	1036	1.556	-1.07
24	150	2240	1.741	0.07	49	48	1011	1.234	-3.00
25	168	2145	2.036	2.72	50	74	990	1.943	1.25
26	132	2054	1.671	-0.57	51	71	969	1.905	1.03

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	337	2	0.13	16.14	5.3
5	336	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM

PAGE 2

LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	94	144	h r r c
4	10	202	m o u a

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

188

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT u y g k k Z 017
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 380 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	18												
b	13	IC TESTS FOR SIGNIFICANCE											
c	19	MONO IC	1.0059	SIGMA	0.3	380				2786	2769		
d	16	DIGRAPHIC TESTS											
e	18	DIGRAPH IC	0.812	SIGMA	-1.9	379			86	106			
f	15	CUT A IC	1.017	SIGMA	0.1	190			27	27			
g	11	CUT B IC	0.799	SIGMA	-1.0	189			21	26			
h	10	TRIGRAPHIC TESTS											
i	19	TRIGRAPH IC	0.99	SIGMA	0.0	378			4	4.05			
j	16	CUT A IC	0.00	SIGMA	-0.7	126			0	0.45			
k	16	CUT B IC	2.22	SIGMA	0.8	126			1	0.45			
l	16	CUT C IC	0.00	SIGMA	-0.7	126			0	0.45			
m	14	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	13	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA
o	14	1	16	15	0.3	12	17	14	0.7	23	12	14	-0.5
p	16	2	10	15	-1.3	13	19	14	1.3	24	15	14	0.3
q	12	3	19	15	1.1	14	11	14	-0.9	25	18	14	1.1
r	12	4	9	15	-1.5	15	15	14	0.2	26	13	14	-0.2
s	9	5	14	15	-0.2	16	13	14	-0.3	27	14	14	0.1
t	8	6	20	15	1.4	17	12	14	-0.6	28	14	14	0.1
u	23	7	11	15	-0.9	18	18	14	1.1	29	16	14	0.6
v	12	8	19	15	1.2	19	20	14	1.6	30	13	14	-0.2
w	9	9	16	14	0.4	20	11	14	-0.8	31	22	14	2.3
x	17	10	11	14	-0.9	21	17	14	0.8	32	15	14	0.4
y	23	11	18	14	1.0	22	14	14	0.0	33	13	14	-0.1
z	11	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	1385	35910	1.003	-0.11	27	96	2485	1.004	-0.02
3	908	23877	0.989	-0.53	28	103	2392	1.120	1.14
4	702	17860	1.022	0.43	29	95	2301	1.073	0.67
5	544	14250	0.993	-0.31	30	77	2220	0.902	-0.94
6	444	11844	0.975	-0.68	31	98	2142	1.190	1.66
7	385	10125	0.989	-0.34	32	82	2068	1.031	0.23
8	353	8836	1.039	0.63	33	67	2002	0.870	-1.22
9	288	7833	0.956	-0.90	34	65	1936	0.873	-1.20
10	252	7030	0.932	-1.26	35	81	1875	1.123	1.05
11	231	6375	0.942	-1.02	36	67	1820	0.957	-0.44
12	230	5828	1.026	0.30	37	83	1765	1.223	1.74
13	206	5365	0.998	-0.12	38	62	1710	0.943	-0.50
14	194	4968	1.015	0.13	39	59	1665	0.921	-0.68
15	185	4625	1.040	0.48	40	62	1620	0.995	-0.09
16	168	4324	1.010	0.05	41	59	1575	0.974	-0.26
17	132	4059	0.846	-2.08	42	57	1530	0.969	-0.30
18	137	3822	0.932	-0.89	43	58	1492	1.011	0.04
19	140	3610	1.008	0.02	44	61	1456	1.089	0.66
20	128	3420	0.973	-0.40	45	57	1420	1.044	0.30
21	116	3249	0.928	-0.86	46	52	1384	0.977	-0.20
22	121	3094	1.017	0.12	47	59	1348	1.138	0.92
23	95	2952	0.837	-1.86	48	52	1316	1.027	0.15
24	109	2820	1.005	-0.01	49	44	1288	0.888	-0.83
25	126	2700	1.213	2.07	50	49	1260	1.011	0.04
26	90	2590	0.903	-1.03	51	33	1232	0.696	-2.17

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	377	0	0.15	0.00	-0.4
5	376	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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190

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t a y u q Z 298
 for interpretation of this run call P 1 on x 3957

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MONO
 COUNT

TOTAL 372 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	21												
b	16	IC TESTS FOR SIGNIFICANCE											
c	22	MONO IC	1.2517	SIGMAGE	13.2	372				3322	2654		
d	7	DIGRAPHIC TESTS											
e	16	DIGRAPH IC	4.560	SIGMAGE	35.9	371			463	102			
f	17	CUT A IC	10.216	SIGMAGE	46.7	186			260	25			
g	13	CUT B IC	6.990	SIGMAGE	30.2	185			176	25			
h	13	TRIGRAPHIC TESTS											
i	12	TRIGRAPH IC	69.07	SIGMAGE	134.3	370			268	3.88			
j	7	CUT A IC	60.47	SIGMAGE	39.3	124			26	0.43			
k	20	CUT B IC	55.81	SIGMAGE	36.0	123			24	0.43			
l	2	CUT C IC	46.51	SIGMAGE	29.9	123			20	0.43			
m	4	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	7	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	12	1	19	18	0.3	12	26	17	2.1	23	13	17	-0.9
p	20	2	12	18	-1.4	13	12	17	-1.3	24	26	17	2.3
q	15	3	18	18	0.1	14	20	17	0.7	25	11	17	-1.4
r	9	4	34	18	4.0	15	11	17	-1.5	26	13	17	-0.9
s	6	5	7	18	-2.6	16	33	17	3.9	27	11	17	-1.4
t	12	6	13	18	-1.1	17	15	17	-0.5	28	29	17	3.1
u	36	7	4	18	-3.3	18	18	17	0.3	29	5	16	-2.9
v	17	8	18	17	0.1	19	12	17	-1.2	30	22	16	1.4
w	8	9	6	17	-2.8	20	27	17	2.5	31	7	16	-2.4
x	16	10	12	17	-1.3	21	8	17	-2.2	32	32	16	4.0
y	35	11	10	17	-1.8	22	25	17	2.1	33	7	16	-2.4
z	9	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											
		W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE		
		2	2345	34410	1.772	19.24	27	103	2379	1.126	-1.26		
		3	1078	22878	1.225	-0.81	28	236	2288	2.682	14.30		
		4	1575	17112	2.393	29.67	29	109	2202	1.287	0.32		
		5	689	13653	1.312	1.38	30	178	2124	2.179	8.34		
		6	745	11346	1.707	9.56	31	78	2046	0.991	-2.35		
		7	477	9699	1.279	0.54	32	185	1980	2.429	10.59		
		8	770	8464	2.365	20.03	33	75	1914	1.019	-2.10		
		9	343	7503	1.189	-1.07	34	105	1850	1.476	2.02		
		10	503	6734	1.942	11.04	35	65	1795	0.942	-2.79		
		11	296	6105	1.261	0.14	36	144	1740	2.152	7.20		
		12	492	5580	2.292	15.60	37	86	1685	1.327	0.60		
		13	251	5138	1.270	0.25	38	91	1638	1.444	1.54		
		14	343	4758	1.874	8.71	39	75	1593	1.224	-0.22		
		15	246	4428	1.444	2.50	40	156	1548	2.620	10.94		
		16	367	4140	2.305	13.69	41	56	1503	0.969	-2.26		
		17	159	3885	1.064	-2.26	42	95	1464	1.687	3.48		
		18	233	3660	1.655	4.84	43	62	1428	1.129	-0.98		
		19	146	3458	1.098	-1.85	44	141	1392	2.634	11.06		
		20	344	3276	2.730	16.26	45	59	1356	1.131	-0.85		
		21	138	3111	1.153	-1.09	46	97	1320	1.911	4.61		
		22	223	2960	1.959	7.78	47	51	1288	1.030	-1.55		
		23	152	2824	1.399	1.62	48	93	1260	1.919	4.67		
		24	217	2700	2.090	8.38	49	51	1232	1.076	-1.23		
		25	121	2583	1.218	-0.34	50	88	1204	1.900	4.54		
		26	170	2478	1.784	5.32	51	35	1176	0.774	-3.35		

POLYGRAPHIC HITS AND IC

	LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	369	184	0.14	1239.07	477.9	
5	368	102	0.01	17927.52	1354.6	

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
8	69	56	b a v b b u p r
4	69	116	b a v b
4	125	60	b a v b
4	73	184	b u p r
12	129	128	b u p r n u c p t u s k
4	149	32	c y t v
4	149	80	c y t v
4	181	48	c y t v
4	181	104	c y t v
4	229	56	c y t v
4	61	160	g y k p
4	61	292	g y k p
8	221	132	g y k p p u k x
8	13	32	h u x e v a c z
8	13	88	h u x e v a c z
8	13	148	h u x e v a c z
8	13	200	h u x e v a c z
12	13	308	h u x e v a c z r i c u
8	45	56	h u x e v a c z
8	45	116	h u x e v a c z
8	45	168	h u x e v a c z
8	45	276	h u x e v a c z
8	101	112	h u x e v a c z
8	101	220	h u x e v a c z
8	161	52	h u x e v a c z
8	161	160	h u x e v a c z
8	213	108	h u x e v a c z
4	169	176	h y q w
9	148	136	i c y t v j y y f
4	109	8	j y y f p u k x
8	109	44	j y y f
4	109	100	j y y f
4	109	180	j y y f
4	109	192	j y y f
4	109	240	j y y f
4	117	36	j y y f
4	117	92	j y y f
4	117	172	j y y f
4	117	184	j y y f
4	117	232	j y y f
4	153	56	j y y f
4	153	148	j y y f
4	153	196	j y y f
4	209	80	j y y f
4	209	92	j y y f
4	209	140	j y y f
4	289	12	j y y f
4	289	60	j y y f
4	301	48	j y y f
4	85	120	k i q b

MORE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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192

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT h v s m w ZE 042
 for interpretation of this run call PROD 03 on x 3843

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MONO
COUNT

TOTAL 480 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	23									
b	21	IC TESTS FOR SIGNIFICANCE								
c	12	MONO IC	1.0014	SIGMAGE	0.1	480		4428	4421	
d	13	DIGRAPHIC TESTS								
e	20	DIGRAPH IC	1.022	SIGMAGE	0.3	479		173	169	
f	17	CUT A IC	1.226	SIGMAGE	1.5	240		52	42	
g	17	CUT B IC	0.903	SIGMAGE	-0.6	239		38	42	
h	21	TRIGRAPHIC TESTS								
i	22	TRIGRAPH IC	0.31	SIGMAGE	-1.8	478		2	6.48	
j	23	CUT A IC	0.00	SIGMAGE	-0.9	160		0	0.72	
k	17	CUT B IC	0.00	SIGMAGE	-0.8	159		0	0.71	
l	16	CUT C IC	0.00	SIGMAGE	-0.8	159		0	0.71	
m	14	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	20	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF								
o	17	1 14 19 -1.1 12 16 18 -0.5 23 15 18 -0.7								
p	26	2 22 19 0.8 13 14 18 -1.0 24 23 18 1.3								
q	19	3 17 19 -0.4 14 21 18 0.7 25 21 18 0.8								
r	29	4 15 19 -0.8 15 22 18 0.9 26 18 18 0.1								
s	22	5 17 19 -0.4 16 19 18 0.2 27 14 18 -0.9								
t	16	6 37 18 4.4 17 13 18 -1.2 28 14 18 -0.9								
u	14	7 16 18 -0.6 18 13 18 -1.2 29 11 18 -1.6								
v	21	8 27 18 2.0 19 17 18 -0.2 30 25 18 1.8								
w	12	9 9 18 -2.2 20 16 18 -0.5 31 18 18 0.1								
x	12	10 20 18 0.4 21 18 18 0.0 32 19 17 0.4								
y	18	11 20 18 0.4 22 18 18 0.0 33 12 17 -1.3								
z	18	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2286	57360	1.036	1.68	27	160	4029	1.033	0.42
3	1506	38160	1.026	0.98	28	164	3876	1.100	1.19
4	1168	28560	1.063	2.11	29	124	3736	0.863	-1.66
5	926	22800	1.056	1.65	30	147	3600	1.062	0.73
6	767	18960	1.052	1.43	31	136	3480	1.016	0.18
7	636	16218	1.020	0.49	32	131	3360	1.014	0.16
8	581	14160	1.067	1.58	33	130	3255	1.038	0.41
9	483	12561	1.000	-0.02	34	123	3150	1.015	0.15
10	472	11280	1.088	1.83	35	114	3055	0.970	-0.34
11	413	10234	1.049	0.96	36	125	2964	1.096	1.05
12	378	9360	1.050	0.93	37	96	2874	0.868	-1.46
13	314	8622	0.947	-1.03	38	112	2796	1.041	0.44
14	341	7990	1.110	1.96	39	97	2718	0.928	-0.73
15	312	7440	1.090	1.51	40	115	2640	1.133	1.32
16	291	6960	1.087	1.46	41	113	2574	1.141	1.40
17	230	6538	0.915	-1.38	42	121	2508	1.254	2.53
18	244	6162	1.030	0.46	43	97	2442	1.033	0.32
19	213	5825	0.951	-0.75	44	101	2380	1.103	1.02
20	225	5520	1.060	0.89	45	99	2325	1.107	1.06
21	229	5247	1.135	2.01	46	98	2270	1.122	1.21
22	214	4998	1.113	1.57	47	94	2215	1.103	0.92
23	182	4770	0.992	-0.13	48	93	2160	1.119	1.06
24	184	4560	1.049	0.67	49	79	2115	0.971	-0.27
25	180	4370	1.071	0.91	50	81	2070	1.017	0.14
26	169	4194	1.048	0.61	51	77	2025	0.989	-0.11

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	477	0	0.24	0.00	0.0
5	476	0	0.01	0.00	-0.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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194

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT y a a s m ZE 060

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MONO
COUNT

TOTAL 480 DITS 0

							HITS OBSERVED	HITS EXPECTED
a	20							
b	7	IC TESTS FOR SIGNIFICANCE						
c	14	MONO IC 1.0125 SIGMAGE	0.8	480		4477	4421	
d	19	DIGRAPHIC TESTS						
e	15	DIGRAPH IC 1.216 SIGMAGE	2.8	479		206	169	
f	15	CUT A IC 1.131 SIGMAGE	0.9	240		48	42	
g	23	CUT B IC 1.236 SIGMAGE	1.5	239		52	42	
h	26	TRIGRAPHIC TESTS						
i	17	TRIGRAPH IC 2.31 SIGMAGE	3.3	478		15	6.48	
j	18	CUT A IC 2.78 SIGMAGE	1.5	160		2	0.72	
k	16	CUT B IC 2.82 SIGMAGE	1.5	159		2	0.71	
l	24	CUT C IC 5.63 SIGMAGE	3.9	159		4	0.71	
m	24	LOCAL ROUGHNESS OFFSETS 1 TO 33						
n	14	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE						
o	22	1 15 19 -0.9 12 18 18 -0.1 23 24 18 1.5						
p	21	2 29 19 2.4 13 22 18 0.9 24 16 18 -0.4						
q	23	3 17 19 -0.4 14 15 18 -0.8 25 13 18 -1.1						
r	13	4 16 19 -0.6 15 18 18 0.0 26 11 18 -1.6						
s	24	5 19 19 0.1 16 15 18 -0.7 27 18 18 0.1						
t	11	6 21 18 0.6 17 15 18 -0.7 28 13 18 -1.1						
u	24	7 21 18 0.6 18 21 18 0.7 29 13 18 -1.1						
v	15	8 14 18 -1.0 19 16 18 -0.5 30 21 18 0.8						
w	19	9 24 18 1.3 20 13 18 -1.2 31 22 18 1.1						
x	23	10 22 18 0.9 21 24 18 1.5 32 18 17 0.1						
y	16	11 18 18 -0.1 22 14 18 -0.9 33 19 17 0.4						
z	17	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W						

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2228	57360	1.010	-0.14	27	162	4029	1.045	0.42
3	1496	38160	1.019	0.23	28	143	3876	0.959	-0.65
4	1102	28560	1.003	-0.34	29	137	3736	0.953	-0.72
5	900	22800	1.026	0.39	30	158	3600	1.141	1.54
6	726	18960	0.996	-0.48	31	128	3480	0.956	-0.68
7	683	16218	1.095	2.13	32	131	3360	1.014	0.01
8	567	14160	1.041	0.67	33	124	3255	0.990	-0.25
9	507	12561	1.049	0.79	34	141	3150	1.164	1.66
10	474	11280	1.093	1.68	35	159	3055	1.353	3.74
11	396	10234	1.006	-0.14	36	111	2964	0.974	-0.43
12	350	9360	0.972	-0.78	37	115	2874	1.040	0.30
13	301	8622	0.908	-2.00	38	107	2796	0.995	-0.20
14	318	7990	1.035	0.40	39	103	2718	0.985	-0.28
15	303	7440	1.059	0.78	40	91	2640	0.896	-1.17
16	278	6960	1.039	0.44	41	97	2574	0.980	-0.33
17	257	6538	1.022	0.14	42	104	2508	1.078	0.65
18	234	6162	0.987	-0.42	43	109	2442	1.161	1.48
19	229	5825	1.022	0.14	44	98	2380	1.071	0.58
20	216	5520	1.017	0.06	45	94	2325	1.051	0.38
21	234	5247	1.160	2.21	46	92	2270	1.054	0.41
22	191	4998	0.994	-0.27	47	90	2215	1.056	0.39
23	193	4770	1.052	0.55	48	84	2160	1.011	-0.02
24	170	4560	0.969	-0.62	49	102	2115	1.254	2.17
25	154	4370	0.916	-1.26	50	81	2070	1.017	0.04
26	130	4194	0.806	-2.69	51	81	2025	1.040	0.24

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	477	2	0.24	8.05	3.5
5	476	0	0.01	0.00	-0.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	61	210	p h g l
4	18	270	p s d j

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA , PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT e u e b d Z 091
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 325 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	21	IC TESTS FOR SIGNIFICANCE				TOTAL				
b	2	MONO IC	1.8049	SIGMAGE	36.9	325		3655	2025	
c	12	DIGRAPHIC TESTS								
d	11	DIGRAPH IC	3.165	SIGMAGE	19.1	324		245	77	
e	48	CUT A IC	3.732	SIGMAGE	12.0	162		72	19	
f	5	CUT B IC	2.592	SIGMAGE	7.0	162		50	19	
g	6	TRIGRAPHIC TESTS								
h	9	TRIGRAPH IC	5.41	SIGMAGE	7.6	323		16	2.96	
i	18	CUT A IC	6.06	SIGMAGE	2.9	108		2	0.33	
j	0	CUT B IC	3.03	SIGMAGE	1.2	108		1	0.33	
k	1	CUT C IC	6.25	SIGMAGE	3.0	107		2	0.32	
l	9	LOCAL ROUGHNESS OFFSETS 1 TO 33								
m	9	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	
n	23	1	26	22	0.8	12	29	22	1.7	23
o	28	2	21	22	-0.3	13	23	22	0.3	24
p	9	3	22	22	0.0	14	21	21	-0.1	25
q	2	4	16	22	-1.4	15	16	21	-1.2	26
r	26	5	24	22	0.4	16	20	21	-0.3	27
s	27	6	17	22	-1.1	17	19	21	-0.5	28
t	31	7	22	22	0.0	18	22	21	0.2	29
u	13	8	24	22	0.5	19	28	21	1.6	30
v	4	9	20	22	-0.4	20	29	21	1.8	31
w	3	10	28	22	1.4	21	18	21	-0.7	32
x	3	11	14	22	-1.7	22	18	21	-0.7	33
y	5									
z	0	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1804	26244	1.787	-0.58	27	114	1794	1.652	-1.38
3	1167	17442	1.740	-1.69	28	124	1727	1.867	0.50
4	876	13041	1.746	-1.36	29	113	1661	1.769	-0.29
5	749	10400	1.873	1.36	30	120	1600	1.950	1.16
6	597	8640	1.797	-0.15	31	112	1545	1.885	0.64
7	510	7383	1.796	-0.15	32	93	1490	1.623	-1.46
8	433	6440	1.748	-0.91	33	98	1440	1.769	-0.29
9	376	5706	1.713	-1.38	34	100	1395	1.864	0.47
10	369	5120	1.874	0.97	35	94	1350	1.810	0.04
11	308	4640	1.726	-1.11	36	90	1305	1.793	-0.08
12	284	4239	1.742	-0.82	37	89	1268	1.825	0.14
13	264	3900	1.760	-0.59	38	88	1232	1.857	0.36
14	255	3611	1.836	0.37	39	67	1196	1.457	-2.44
15	239	3360	1.849	0.53	40	75	1160	1.681	-0.87
16	208	3140	1.722	-0.91	41	76	1127	1.753	-0.36
17	199	2945	1.757	-0.53	42	77	1099	1.822	0.12
18	193	2772	1.810	0.06	43	72	1071	1.748	-0.40
19	185	2618	1.837	0.32	44	66	1043	1.645	-1.12
20	176	2480	1.845	0.40	45	67	1015	1.716	-0.53
21	160	2355	1.766	-0.39	46	60	987	1.581	-1.34
22	151	2240	1.753	-0.52	47	69	963	1.863	0.35
23	153	2135	1.863	0.52	48	59	942	1.628	-1.06
24	134	2041	1.707	-0.88	49	74	921	2.089	1.70
25	135	1950	1.800	-0.05	50	59	900	1.704	-0.61
26	122	1872	1.694	-1.00	51	62	879	1.834	0.17

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	322	3	0.12	26.53	8.6
5	321	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	146	10	e n r e
4	38	30	o m m e
4	288	30	o u t n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT x j x u f Z 001

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 380 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	21										
b	10	IC TESTS FOR SIGNIFICANCE									
c	19	MONO IC 1.0117	SIGMAGE	0.6	380				2802	2769	
d	17	DIGRAPHIC TESTS									
e	18	DIGRAPH IC	0.925	SIGMAGE	-0.8	379			98	106	
f	10	CUT A IC	0.866	SIGMAGE	-0.7	190			23	27	
g	11	CUT B IC	0.723	SIGMAGE	-1.4	189			19	26	
h	17	TRIGRAPHIC TESTS									
i	8	TRIGRAPH IC	1.23	SIGMAGE	0.5	378			5	4.05	
j	14	CUT A IC	0.00	SIGMAGE	-0.7	126			0	0.45	
k	16	CUT B IC	0.00	SIGMAGE	-0.7	126			0	0.45	
l	18	CUT C IC	2.22	SIGMAGE	0.8	126			1	0.45	
m	20	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	12	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	14	1 18 15	0.9	12	11	14	-0.9	23	14	14	0.0
p	17	2 13 15	-0.5	13	12	14	-0.6	24	11	14	-0.8
q	13	3 9 15	-1.5	14	14	14	-0.1	25	13	14	-0.2
r	15	4 13 15	-0.4	15	13	14	-0.3	26	13	14	-0.2
s	10	5 15 15	0.1	16	16	14	0.5	27	18	14	1.2
t	16	6 8 15	-1.8	17	13	14	-0.3	28	12	14	-0.5
u	9	7 14 15	-0.1	18	13	14	-0.3	29	9	14	-1.3
v	10	8 20 15	1.5	19	13	14	-0.3	30	10	14	-1.0
w	14	9 21 14	1.8	20	15	14	0.3	31	17	14	0.9
x	25	10 15 14	0.2	21	18	14	1.1	32	14	14	0.1
y	13	11 11 14	-0.9	22	10	14	-1.1	33	13	14	-0.1
z	13	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
	W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE	
	2	1385	35910	1.003	-0.34	27	99	2485	1.036	0.24	
	3	923	23877	1.005	-0.22	28	94	2392	1.022	0.10	
	4	750	17860	1.092	2.16	29	80	2301	0.904	-1.08	
	5	561	14250	1.024	0.29	30	80	2220	0.937	-0.68	
	6	441	11844	0.968	-0.97	31	83	2142	1.007	-0.05	
	7	402	10125	1.032	0.40	32	86	2068	1.081	0.62	
	8	373	8836	1.098	1.63	33	74	2002	0.961	-0.46	
	9	317	7833	1.052	0.72	34	80	1936	1.074	0.56	
	10	278	7030	1.028	0.27	35	78	1875	1.082	0.63	
	11	239	6375	0.975	-0.59	36	85	1820	1.214	1.82	
	12	247	5828	1.102	1.35	37	86	1765	1.267	2.04	
	13	205	5365	0.993	-0.29	38	64	1710	0.973	-0.31	
	14	189	4968	0.989	-0.32	39	64	1665	0.999	-0.10	
	15	171	4625	0.961	-0.71	40	70	1620	1.123	0.89	
	16	178	4324	1.070	0.75	41	57	1575	0.941	-0.57	
	17	166	4059	1.063	0.66	42	53	1530	0.901	-0.89	
	18	160	3822	1.088	0.91	43	49	1492	0.854	-1.26	
	19	134	3610	0.965	-0.56	44	67	1456	1.196	1.47	
	20	142	3420	1.080	0.82	45	54	1420	0.989	-0.18	
	21	132	3249	1.056	0.48	46	49	1384	0.921	-0.64	
	22	117	3094	0.983	-0.32	47	46	1348	0.887	-0.88	
	23	103	2952	0.907	-1.16	48	58	1316	1.146	0.94	
	24	118	2820	1.088	0.84	49	47	1288	0.949	-0.44	
	25	115	2700	1.107	0.95	50	53	1260	1.094	0.57	
	26	106	2590	1.064	0.52	51	47	1232	0.992	-0.14	

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	377	0	0.15	0.00	-0.4
5	376	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROY ROY Date 1 September 1964

DATA IDENT 5 0 0 2 1 Z 105

for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 465 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	50							
1	75	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	66	MONO IC	1.1142	SIGMAGE	12.5	465	12020	10788
3	59	DIGRAPHIC TESTS						
4	56	DIGRAPH IC	1.369	SIGMAGE	12.2	464	1471	1074
5	38	CUT A IC	1.325	SIGMAGE	5.4	232	355	268
6	45	CUT B IC	1.399	SIGMAGE	6.6	232	375	268
7	28	TRIGRAPHIC TESTS						
8	23	TRIGRAPH IC	3.33	SIGMAGE	24.1	463	356	106.95
9	25	CUT A IC	9.30	SIGMAGE	28.8	155	111	11.94
		CUT B IC	7.64	SIGMAGE	22.9	154	90	11.78
		CUT C IC	6.88	SIGMAGE	20.3	154	81	11.78

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	38	52	-2.0	12	73	50	3.4	23	42	49	-1.1
2	27	51	-3.6	13	54	50	0.6	24	66	49	2.6
3	50	51	-0.2	14	52	50	0.3	25	40	49	-1.3
4	49	51	-0.3	15	56	50	0.9	26	37	49	-1.8
5	51	51	0.0	16	44	50	-0.9	27	62	49	2.0
6	54	51	0.5	17	42	50	-1.2	28	42	49	-1.0
7	41	51	-1.5	18	69	50	2.9	29	40	48	-1.3
8	47	51	-0.6	19	45	50	-0.7	30	66	48	2.7
9	57	51	1.0	20	32	49	-2.6	31	45	48	-0.5
10	46	51	-0.7	21	70	49	3.1	32	49	48	0.1
11	29	50	-3.2	22	53	49	0.6	33	70	48	3.4

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	6065	53824	1.127	1.00	27	500	3774	1.325	4.22
3	4883	35805	1.364	15.75	28	423	3632	1.165	1.02
4	3028	26796	1.130	0.88	29	370	3496	1.058	-1.12
5	2352	21390	1.100	-0.69	30	497	3375	1.473	6.82
6	2461	17787	1.384	11.88	31	395	3255	1.214	1.90
7	1683	15213	1.106	-0.33	32	313	3150	0.994	-2.28
8	1489	13282	1.121	0.27	33	436	3045	1.432	5.72
9	1620	11781	1.375	9.40	34	321	2951	1.088	-0.47
10	1191	10580	1.126	0.41	35	313	2860	1.094	-0.36
11	1065	9597	1.110	-0.13	36	388	2772	1.400	5.15
12	1223	8778	1.393	8.65	37	256	2694	0.950	-2.79
13	926	8085	1.145	0.93	38	294	2616	1.124	0.17
14	857	7491	1.144	0.87	39	345	2541	1.358	4.15
15	947	6975	1.358	6.83	40	271	2475	1.095	-0.32
16	687	6525	1.053	-1.65	41	244	2409	1.013	-1.62
17	667	6129	1.088	-0.68	42	325	2343	1.387	4.37
18	807	5775	1.397	7.08	43	262	2285	1.147	0.53
19	599	5460	1.097	-0.43	44	224	2230	1.004	-1.76
20	593	5175	1.146	0.77	45	283	2175	1.301	2.99
21	673	4917	1.369	5.87	46	244	2120	1.151	0.56
22	517	4683	1.104	-0.23	47	228	2070	1.101	-0.20
23	515	4470	1.152	0.84	48	261	2025	1.289	2.63
24	589	4275	1.378	5.81	49	217	1980	1.096	-0.27
25	405	4095	0.989	-2.63	50	212	1935	1.096	-0.27
26	465	3927	1.184	1.47	51	249	1890	1.317	3.05

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	462	176	10.64	16.53	50.9
5	461	118	1.07	111.29	113.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	129	51	0 1 1 9
5	246	183	0 2 1 3 2
4	62	282	0 8 1 1
4	5	354	1 0 0 4
7	181	57	1 1 9 4 0 6 5
6	181	135	1 1 9 4 0 6
5	295	156	1 2 3 3 1
4	198	18	1 2 3 7
4	198	84	1 2 3 7
8	216	66	1 2 3 7 1 5 6 0
9	216	111	1 2 3 7 1 5 6 0 3
8	282	45	1 2 3 7 1 5 6 0
8	230	18	1 3 2 0 6 1 7 3
8	248	153	1 3 2 0 6 1 7 3
4	104	290	1 5 2 1
5	32	35	1 6 4 8 7
4	338	117	1 9 2 8
4	59	123	1 9 4 0
4	59	180	1 9 4 0
4	59	258	1 9 4 0
6	112	120	2 0 6 1 7 3
6	112	138	2 0 6 1 7 3
6	112	291	2 0 6 1 7 3
12	232	78	2 0 6 1 7 3 1 1 9 4 0 6
6	232	228	2 0 6 1 7 3
6	250	60	2 0 6 1 7 3
6	250	210	2 0 6 1 7 3
6	310	93	2 0 6 1 7 3
6	403	5	2 0 6 1 7 3
5	197	129	2 1 2 3 7
7	121	96	2 3 7 1 5 6 0
7	121	141	2 3 7 1 5 6 0
7	121	162	2 3 7 1 5 6 0
7	121	207	2 3 7 1 5 6 0
7	121	261	2 3 7 1 5 6 0
7	217	45	2 3 7 1 5 6 0
7	217	165	2 3 7 1 5 6 0
7	262	21	2 3 7 1 5 6 0
7	262	66	2 3 7 1 5 6 0
13	262	120	2 3 7 1 5 6 0 2 9 4 7 6 1
7	283	99	2 3 7 1 5 6 0
7	328	54	2 3 7 1 5 6 0
4	85	12	2 5 1 3
5	100	94	3 4 4 2 1
5	50	60	3 8 2 0 6
5	50	258	3 8 2 0 6
9	229	171	4 1 3 2 0 6 1 7 3
4	26	75	4 4 2 1
4	26	169	4 4 2 1
5	208	63	4 7 6 1 6

MORE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

DATA IDENT 5 0 0 2 1 Z 106

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 394 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	35							
1	53	IC TESTS FOR SIGNIFICANCE			TOTAL		8748	7742
2	57	MONO IC 1.1299 SIGMAGE	12.0	394				
3	35	DIGRAPHIC TESTS						
4	62	DIGRAPH IC 1.477 SIGMAGE	13.3	393		1138	770	
5	38	CUT A IC 1.440 SIGMAGE	6.2	197		278	193	
6	52	CUT B IC 1.444 SIGMAGE	6.2	196		276	191	
7	29	TRIGRAPHIC TESTS						
8	15	TRIGRAPH IC 3.13 SIGMAGE	18.7	392		240	76.64	
9	18	CUT A IC 4.58 SIGMAGE	10.5	131		39	8.52	
		CUT B IC 3.87 SIGMAGE	8.4	131		33	8.52	
		CUT C IC 5.84 SIGMAGE	14.1	130		49	8.39	

LOCAL ROUGHNESS OFFSETS 1 TO 33-

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	37	44	-1.2	12	58	43	2.4	23	37	42	-0.8
2	33	44	-1.8	13	49	43	1.0	24	72	42	5.0
3	46	44	0.3	14	41	43	-0.3	25	36	42	-0.9
4	31	44	-2.1	15	51	43	1.3	26	43	42	0.2
5	31	44	-2.1	16	27	43	-2.6	27	65	41	3.9
6	57	44	2.1	17	44	43	0.2	28	30	41	-1.9
7	34	44	-1.6	18	49	42	1.1	29	40	41	-0.2
8	40	44	-0.6	19	31	42	-1.9	30	56	41	2.5
9	55	44	1.9	20	42	42	0.0	31	41	41	0.0
10	34	43	-1.5	21	51	42	1.4	32	45	41	0.7
11	33	43	-1.7	22	37	42	-0.8	33	52	41	1.9

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4308	38612	1.116	-0.92	27	333	2681	1.242	1.90
3	3174	25676	1.236	5.62	28	284	2576	1.102	-0.48
4	2187	19208	1.139	0.41	29	279	2483	1.124	-0.10
5	1654	15327	1.079	-2.09	30	253	2392	1.058	-1.15
6	1535	12740	1.205	2.85	31	261	2310	1.130	0.00
7	1200	10892	1.102	-0.98	32	251	2232	1.125	-0.08
8	1061	9506	1.116	-0.46	33	266	2156	1.234	1.66
9	1022	8428	1.213	2.57	34	232	2090	1.110	-0.30
10	820	7566	1.084	-1.33	35	210	2024	1.038	-1.38
11	778	6860	1.134	0.11	36	232	1960	1.184	0.81
12	770	6272	1.228	2.55	37	206	1905	1.081	-0.74
13	660	5775	1.143	0.33	38	181	1850	0.978	-2.13
14	578	5348	1.081	-1.18	39	219	1795	1.220	1.26
15	560	4979	1.125	-0.12	40	182	1746	1.042	-1.23
16	505	4656	1.085	-1.04	41	191	1701	1.123	-0.10
17	481	4370	1.101	-0.64	42	190	1656	1.147	0.24
18	466	4116	1.132	0.04	43	180	1611	1.117	-0.17
19	423	3890	1.087	-0.90	44	177	1568	1.129	-0.01
20	404	3686	1.096	-0.68	45	160	1532	1.044	-1.12
21	439	3501	1.254	2.48	46	160	1496	1.070	-0.78
22	374	3332	1.122	-0.15	47	164	1460	1.123	-0.09
23	360	3179	1.132	0.04	48	161	1424	1.131	0.01
24	391	3040	1.286	2.81	49	172	1388	1.239	1.31
25	298	2910	1.024	-1.91	50	144	1358	1.060	-0.84
26	340	2790	1.219	1.60	51	169	1330	1.271	1.69

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	391	95	7.63	12.46	31.8
5	390	53	0.75	69.87	60.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	55	215	0 4 4	1
4	99	171	0 4 4	1
5	59	71	0 6 4	0 4
5	103	27	0 6 4	0 4
4	249	24	1 1 2	2
6	216	99	1 1 6	5 2 6
4	111	9	2 0 6	1
4	111	30	2 0 6	1
5	251	105	2 2 6	2 5
7	49	24	2 3 7	1 5 6 0
16	49	44	2 3 7	1 5 6 0 4 4 1 0 6 4 0
			4 2	
6	49	173	2 3 7	1 5 6
7	73	20	2 3 7	1 5 6 0
6	93	129	2 3 7	1 5 6
8	71	149	2 6 2	3 7 1 5 6
4	108	124	2 6 3	2
4	24	323	3 5 4	4
4	37	310	3 5 4	4
4	13	290	4 1 6	5
6	40	42	4 7 6	1 6 6
9	117	21	4 8 8	2 0 6 1 7 3
4	201	6	4 9 2	4
5	1	27	5 0 0	2 1
11	147	24	5 2 6	1 7 3 5 4 9 5 6
5	279	27	5 6 9	2 1
4	122	27	6 1 7	3
4	122	51	6 1 7	3
5	143	6	6 1 7	3 5
5	143	30	6 1 7	3 5
4	253	69	6 2 5	4
4	109	72	6 3 2	0
7	33	125	6 4 8	7 3 5 4
4	170	48	6 5 2	6
4	170	147	6 5 2	6
5	23	13	7 3 5	4 4
4	23	128	7 3 5	4
4	23	138	7 3 5	4
4	23	152	7 3 5	4
4	36	115	7 3 5	4
4	36	139	7 3 5	4
4	151	10	7 3 5	4
4	161	14	7 3 5	4

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT 9 7 4 8 3 Z 243

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 365 DITS 0

						TOTAL	HITS OBSERVED	HITS EXPECTED
0	27							
1	19	IC TESTS FOR SIGNIFICANCE						
2	16	MONO IC 1.2806 SIGMAGE	24.1	365		8507	6643	
3	26	DIGRAPHIC TESTS						
4	24	DIGRAPH IC 1.934 SIGMAGE	24.2	364		1278	661	
5	37	CUT A IC 1.785 SIGMAGE	10.2	182		294	165	
6	29	CUT B IC 2.167 SIGMAGE	15.1	182		357	165	
7	67	TRIGRAPHIC TESTS						
8	39	TRIGRAPH IC 3.56 SIGMAGE	20.8	363		234	65.70	
9	81	CUT A IC 3.31 SIGMAGE	6.3	121		24	7.26	
		CUT B IC 2.75 SIGMAGE	4.7	121		20	7.26	
		CUT C IC 3.99 SIGMAGE	8.1	121		29	7.26	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	32	47	-2.3	12	45	45	0.0	23	41	44	-0.4
2	59	46	2.0	13	39	45	-1.0	24	44	44	0.1
3	41	46	-0.8	14	52	45	1.1	25	54	44	1.7
4	43	46	-0.5	15	50	45	0.8	26	44	43	0.1
5	45	46	-0.2	16	35	45	-1.5	27	46	43	0.4
6	47	46	0.2	17	42	45	-0.4	28	41	43	-0.3
7	46	46	0.0	18	41	44	-0.5	29	53	43	1.6
8	47	46	0.2	19	49	44	0.8	30	33	43	-1.6
9	53	46	1.2	20	42	44	-0.3	31	44	43	0.2
10	33	45	-2.0	21	44	44	0.0	32	39	43	-0.6
11	54	45	1.4	22	43	44	-0.1	33	31	42	-1.9

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4205	33124	1.269	-0.73	27	291	2288	1.272	-0.14
3	2809	22022	1.276	-0.25	28	260	2197	1.183	-1.57
4	2076	16471	1.260	-0.90	29	273	2118	1.289	0.12
5	1685	13140	1.282	0.04	30	238	2040	1.167	-1.71
6	1362	10920	1.247	-1.19	31	239	1969	1.214	-1.01
7	1191	9334	1.276	-0.16	32	242	1903	1.272	-0.14
8	1019	8145	1.251	-0.90	33	218	1837	1.187	-1.32
9	944	7220	1.307	0.73	34	234	1780	1.315	0.48
10	806	6480	1.244	-1.00	35	214	1725	1.241	-0.56
11	754	5874	1.284	0.08	36	225	1670	1.347	0.92
12	692	5370	1.289	0.19	37	197	1620	1.216	-0.85
13	665	4942	1.346	1.50	38	203	1575	1.289	0.10
14	580	4576	1.267	-0.32	39	199	1530	1.301	0.26
15	535	4260	1.256	-0.55	40	174	1485	1.172	-1.42
16	493	3982	1.238	-0.90	41	189	1444	1.309	0.36
17	493	3738	1.319	0.76	42	181	1408	1.286	0.07
18	444	3520	1.261	-0.40	43	197	1372	1.436	1.86
19	459	3325	1.380	1.88	44	173	1336	1.295	0.17
20	389	3150	1.235	-0.87	45	166	1300	1.277	-0.05
21	387	2992	1.293	0.22	46	141	1267	1.113	-2.02
22	366	2848	1.285	0.07	47	150	1239	1.211	-0.84
23	331	2715	1.219	-1.05	48	158	1211	1.305	0.29
24	332	2595	1.279	-0.03	49	142	1183	1.200	-0.89
25	331	2485	1.332	0.87	50	142	1155	1.229	-0.57
26	339	2380	1.424	2.29	51	163	1127	1.446	1.82

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	362	56	6.54	8.57	19.4
5	361	15	0.64	23.08	17.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT							
4	40	288	0	5	9	6				
4	40	314	0	5	9	6				
4	328	26	0	5	9	6				
5	139	99	0	9	8	8	9			
4	206	1	1	1	1	1				
5	226	27	1	9	8	7	3			
4	72	56	4	7	3	7				
4	258	68	5	7	0	5				
5	162	186	5	9	1	9	8			
4	202	151	6	0	5	9				
5	108	212	6	8	7	4	9			
5	24	274	6	8	9	7	5			
4	15	312	7	0	5	9				
4	73	104	7	3	7	3				
4	73	221	7	3	7	3				
5	177	117	7	3	7	3	6			
4	10	119	7	3	7	5				
4	37	73	7	4	9	0				
4	12	159	7	5	2	7				
8	186	29	7	5	7	9	9	9	5	2
5	135	180	7	7	4	2	0			
4	8	330	8	0	7	3				
4	52	172	8	9	1	9				
4	55	108	9	1	9	8				
4	55	170	9	1	9	8				
4	55	294	9	1	9	8				
4	163	62	9	1	9	8				
4	225	124	9	1	9	8				
4	278	52	9	6	4	7				
4	64	292	9	6	7	4				
4	1	152	9	7	4	8				
4	1	285	9	7	4	8				
4	153	133	9	7	4	8				
4	90	145	9	7	9	0				
5	227	65	9	8	7	3	7			
4	254	38	9	8	7	3				
4	140	123	9	8	8	9				
5	239	24	9	8	8	9	5			
4	18	102	9	8	9	6				
6	18	289	9	8	9	6	9	6		
4	120	187	9	8	9	6				

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 1 7 3 7 6 Z 314

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 462 DITS 0

						HITS OBSERVED	HITS EXPECTED
0	35						
1	20	IC TESTS FOR SIGNIFICANCE			TOTAL		
2	15	MONO IC 1.3771 SIGMAGE	41.0	462	14665	10649	
3	33	DIGRAPHIC TESTS					
4	22	DIGRAPH IC 2.485 SIGMAGE	48.7	461	2635	1060	
5	49	CUT A IC 2.379 SIGMAGE	22.6	231	632	266	
6	40	CUT B IC 2.472 SIGMAGE	24.1	230	651	263	
7	76	TRIGRAPHIC TESTS					
8	56	TRIGRAPH IC 6.14 SIGMAGE	52.9	460	648	105.57	
9	116	CUT A IC 5.69 SIGMAGE	16.2	154	67	11.78	
		CUT B IC 5.85 SIGMAGE	16.6	153	68	11.63	
		CUT C IC 5.67 SIGMAGE	16.0	153	66	11.63	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	38	64	-3.5	12	72	62	1.4	23	63	61	0.3
2	83	63	2.6	13	61	62	-0.1	24	53	60	-1.0
3	50	63	-1.8	14	57	62	-0.7	25	61	60	0.1
4	72	63	1.2	15	70	62	1.1	26	70	60	1.4
5	63	63	0.0	16	46	62	-2.1	27	72	60	1.7
6	58	63	-0.7	17	72	61	1.5	28	68	60	1.1
7	61	63	-0.2	18	49	61	-1.7	29	59	60	-0.1
8	56	63	-0.9	19	58	61	-0.4	30	64	60	0.6
9	64	63	0.2	20	56	61	-0.7	31	57	59	-0.3
10	60	62	-0.3	21	79	61	2.5	32	61	59	0.2
11	75	62	1.7	22	62	61	0.2	33	67	59	1.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	7309	53130	1.376	-0.08	27	527	3723	1.416	0.78
3	4846	35343	1.371	-0.38	28	483	3584	1.348	-0.58
4	3588	26450	1.357	-1.08	29	444	3450	1.287	-1.80
5	2917	21114	1.382	0.24	30	487	3330	1.462	1.62
6	2392	17556	1.362	-0.66	31	408	3213	1.270	-2.03
7	2065	15015	1.375	-0.08	32	389	3108	1.252	-2.38
8	1749	13110	1.334	-1.63	33	416	3003	1.385	0.14
9	1599	11628	1.375	-0.07	34	394	2912	1.353	-0.43
10	1471	10442	1.409	1.09	35	365	2821	1.294	-1.49
11	1329	9471	1.403	0.83	36	375	2736	1.371	-0.10
12	1177	8664	1.358	-0.59	37	368	2658	1.384	0.12
13	1079	7980	1.352	-0.75	38	372	2580	1.442	1.11
14	1011	7392	1.368	-0.26	39	322	2508	1.284	-1.58
15	964	6885	1.400	0.64	40	386	2442	1.581	3.26
16	860	6440	1.335	-1.13	41	344	2376	1.448	1.14
17	854	6048	1.412	0.91	42	301	2310	1.303	-1.18
18	786	5700	1.379	0.05	43	351	2255	1.557	2.88
19	791	5388	1.468	2.18	44	277	2200	1.259	-1.89
20	738	5106	1.445	1.63	45	305	2145	1.422	0.68
21	666	4851	1.373	-0.09	46	314	2090	1.502	1.88
22	622	4620	1.346	-0.71	47	261	2043	1.278	-1.49
23	633	4410	1.435	1.28	48	270	1998	1.351	-0.39
24	561	4218	1.330	-1.03	49	271	1953	1.388	0.17
25	538	4041	1.331	-0.97	50	252	1908	1.321	-0.84
26	530	3876	1.367	-0.21	51	267	1863	1.433	0.78

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	459	223	10.52	21.22	65.8
5	458	127	1.04	121.36	123.3
6	457	97	0.11	930.90	300.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 5 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
19	308	134	2 6 0 9 8 8 9 5 9 7 4 8 9 1
5	100	204	9 8 0 3 3
5	49	324	4 7 7 5 2
5	164	209	5 9 0 9 8
5	289	84	5 9 0 9 8
5	373	49	5 9 0 9 8
6	118	80	5 9 1 3 9 6
6	203	65	6 9 6 9 6 9
14	47	115	7 0 5 9 0 9 8 9 7 9 6 5 7 3
17	47	240	7 0 5 9 0 9 8 9 7 9 6 5 7 3
18	47	373	7 0 5 9 0 9 8 9 7 9 6 5 7 3
14	162	125	9 8 8 0
14	162	258	7 0 5 9 0 9 8 9 7 9 6 5 7 3
17	287	133	7 0 5 9 0 9 8 9 7 9 6 5 7 3
5	124	50	9 8 8
8	223	110	7 3 6 3 9 6 9 6
7	24	317	7 8 9 8 8 0
5	79	240	7 9 6 9 8 8
5	79	374	8 9 1 9 8
5	202	2	9 6 9 6 9
5	202	67	9 6 9 6 9
5	25	168	9 6 9 8 8
5	193	149	9 6 9 8 8
11	71	137	9 7 4 7 9 7 9 6 8 9 1
6	15	376	9 7 9 0 5 9
5	92	219	9 8 8 9 5
5	92	353	9 8 8 9 5
6	182	129	9 8 8 9 5 9
6	182	263	9 8 8 9 5 9
8	89	90	9 9 5 9 8 8 9 5

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 9 0 0 5 7 Z 133
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 255 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	30						
1	31	IC TESTS FOR SIGNIFICANCE					
2	45	MONO IC	1.1329	SIGMAGE	7.9	255	3669
3	8	DIGRAPHIC TESTS					
4	22	DIGRAPH IC	1.320	SIGMAGE	5.8	254	424
5	33	CUT A IC	1.725	SIGMAGE	6.5	127	138
6	10	CUT B IC	1.475	SIGMAGE	4.3	127	118
7	20	TRIGRAPHIC TESTS					
8	27	TRIGRAPH IC	1.82	SIGMAGE	4.6	253	58
9	29	CUT A IC	1.40	SIGMAGE	0.8	85	5
		CUT B IC	1.72	SIGMAGE	1.4	84	6
		CUT C IC	1.72	SIGMAGE	1.4	84	6

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	31	29	0.5	12	36	27	1.7	23	22	26	-0.9
2	31	29	0.5	13	27	27	-0.1	24	27	26	0.2
3	20	28	-1.7	14	39	27	2.4	25	26	26	0.0
4	31	28	0.5	15	24	27	-0.6	26	26	26	0.0
5	21	28	-1.4	16	32	27	1.0	27	34	26	1.7
6	40	28	2.4	17	13	27	-2.8	28	26	26	0.1
7	27	28	-0.2	18	37	27	2.1	29	28	26	0.5
8	28	28	0.0	19	27	27	0.1	30	27	25	0.3
9	25	28	-0.6	20	29	27	0.5	31	27	25	0.4
10	36	28	1.7	21	25	26	-0.3	32	24	25	-0.3
11	34	28	1.3	22	34	26	1.6	33	27	25	0.4

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1991	16129	1.234	4.24	27	112	1080	1.037	-1.06
3	1220	10710	1.139	0.21	28	119	1035	1.150	0.19
4	966	8001	1.207	2.22	29	106	996	1.064	-0.76
5	709	6375	1.112	-0.57	30	126	960	1.313	1.80
6	662	5292	1.251	2.83	31	90	924	0.974	-1.59
7	489	4518	1.082	-1.12	32	96	889	1.080	-0.53
8	496	3937	1.260	2.67	33	104	861	1.208	0.75
9	418	3486	1.199	1.32	34	105	833	1.261	1.28
10	399	3125	1.277	2.74	35	98	805	1.217	0.76
11	335	2829	1.184	0.92	36	107	777	1.377	2.20
12	321	2583	1.243	1.87	37	83	753	1.102	-0.28
13	261	2375	1.099	-0.54	38	89	732	1.216	0.75
14	267	2196	1.216	1.33	39	92	711	1.294	1.45
15	236	2040	1.157	0.36	40	89	690	1.290	1.41
16	218	1905	1.144	0.17	41	69	669	1.031	-0.92
17	175	1785	0.980	-2.14	42	71	648	1.096	-0.33
18	230	1680	1.369	3.30	43	61	630	0.968	-1.32
19	180	1586	1.135	0.03	44	78	615	1.268	1.08
20	190	1500	1.267	1.74	45	77	600	1.283	1.20
21	144	1422	1.013	-1.56	46	87	585	1.487	2.83
22	171	1353	1.264	1.57	47	56	570	0.982	-1.21
23	162	1287	1.259	1.51	48	52	555	0.937	-1.57
24	150	1230	1.220	1.04	49	57	540	1.056	-0.62
25	116	1175	0.987	-1.61	50	55	525	1.048	-0.68
26	130	1125	1.156	0.25	51	53	510	1.039	-0.75

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	252	12	3.17	3.79	5.0
5	251	3	0.32	9.56	4.8

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT			
4	2	122	0	0	5	7
4	12	180	2	0	2	9
5	28	76	2	8	2	1 2
4	61	161	5	5	2	8
4	149	32	7	5	1	8
4	9	20	8	2	1	2
5	9	96	8	2	1	2 0
4	119	102	9	5	5	2
5	95	110	9	9	1	1 8

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT 4 7 5 2 5 Z 284

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 240 DITS 0

								HITS OBSERVED	HITS EXPECTED
0	24								
1	22	IC TESTS FOR SIGNIFICANCE							
2	39	MONO IC	1.1091	SIGMAGE	6.1	240	3181	2868	
3	11	DIGRAPHIC TESTS							
4	26	DIGRAPH IC	1.410	SIGMAGE	7.0	239	401	284	
5	41	CUT A IC	1.737	SIGMAGE	6.3	120	124	71	
6	13	CUT B IC	1.396	SIGMAGE	3.3	119	98	70	
7	22	TRIGRAPHIC TESTS							
8	23	TRIGRAPH IC	1.95	SIGMAGE	5.1	238	55	28.20	
9	19	CUT A IC	1.90	SIGMAGE	1.6	80	6	3.16	
		CUT B IC	2.27	SIGMAGE	2.2	79	7	3.08	
		CUT C IC	3.25	SIGMAGE	4.0	79	10	3.08	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	20	27	-1.3	12	30	25	1.0	23	23	24	-0.2
2	28	26	0.3	13	22	25	-0.7	24	26	24	0.4
3	29	26	0.6	14	26	25	0.2	25	36	24	2.6
4	23	26	-0.7	15	19	25	-1.3	26	13	24	-2.3
5	29	26	0.6	16	23	25	-0.4	27	18	24	-1.2
6	21	26	-1.0	17	25	25	0.1	28	21	24	-0.6
7	31	26	1.1	18	28	25	0.7	29	19	23	-1.0
8	35	26	1.9	19	24	25	-0.1	30	21	23	-0.5
9	19	26	-1.4	20	28	24	0.8	31	27	23	0.8
10	29	26	0.7	21	18	24	-1.4	32	20	23	-0.7
11	28	25	0.5	22	31	24	1.5	33	18	23	-1.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1651	14280	1.156	1.88	27	90	948	0.949	-1.60
3	1016	9480	1.072	-1.18	28	105	912	1.151	0.42
4	811	7080	1.145	1.01	29	95	876	1.084	-0.25
5	633	5640	1.122	0.33	30	91	840	1.083	-0.26
6	534	4680	1.141	0.74	31	91	812	1.121	0.12
7	475	3995	1.189	1.68	32	85	784	1.084	-0.23
8	395	3480	1.135	0.52	33	85	756	1.124	0.14
9	313	3081	1.016	-1.77	34	83	728	1.140	0.28
10	323	2760	1.170	1.10	35	84	705	1.191	0.74
11	305	2499	1.220	1.89	36	68	684	0.994	-1.04
12	256	2280	1.123	0.22	37	66	663	0.995	-1.03
13	206	2097	0.982	-1.91	38	87	642	1.355	1.97
14	235	1938	1.213	1.56	39	59	621	0.950	-1.27
15	192	1800	1.067	-0.59	40	67	600	1.117	0.06
16	188	1680	1.119	0.14	41	71	585	1.214	0.84
17	183	1575	1.162	0.69	42	71	570	1.246	1.10
18	168	1482	1.134	0.33	43	58	555	1.045	-0.51
19	156	1398	1.116	0.08	44	79	540	1.463	2.83
20	154	1320	1.167	0.70	45	49	525	0.933	-1.41
21	152	1254	1.212	1.24	46	56	510	1.098	-0.09
22	171	1190	1.437	3.94	47	67	495	1.354	1.72
23	124	1135	1.093	-0.18	48	50	480	1.042	-0.47
24	118	1080	1.093	-0.18	49	60	470	1.277	1.18
25	115	1035	1.111	0.02	50	49	460	1.065	-0.31
26	100	990	1.010	-1.09	51	62	450	1.378	1.88

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	237	11	2.79	3.93	4.9
5	236	4	0.27	14.42	7.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT							
4	171	51	0	1	8	5				
4	19	214	1	2	3	1				
4	47	90	2	2	5	2				
4	53	63	2	4	2	8				
4	87	76	5	4	9	8				
8	107	44	7	5	1	8	9	8	4	9
4	10	214	8	5	6	0				

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 1 0 8 9 3 Z 069
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 357 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	16							
1	36	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	21	MONO IC 1.1346 SIGMAGE	11.3	357		7210	6354	
3	55	DIGRAPHIC TESTS						
4	40	DIGRAPH IC 1.516 SIGMAGE	13.1	356		958	632	
5	27	CUT A IC 1.663 SIGMAGE	8.4	178		262	158	
6	29	CUT B IC 1.695 SIGMAGE	8.8	178		267	158	
7	42	TRIGRAPHIC TESTS						
8	27	TRIGRAPH IC 3.21 SIGMAGE	17.6	355		202	62.84	
9	64	CUT A IC 2.85 SIGMAGE	4.9	119		20	7.02	
		CUT B IC 3.33 SIGMAGE	6.2	118		23	6.90	
		CUT C IC 3.77 SIGMAGE	7.3	118		26	6.90	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	32	40	-1.4	12	40	39	0.2	23	25	38	-2.2
2	40	40	0.0	13	39	39	0.0	24	42	38	0.8
3	45	40	0.8	14	34	39	-0.8	25	43	38	1.0
4	29	40	-1.8	15	31	39	-1.3	26	44	37	1.1
5	36	40	-0.6	16	48	39	1.6	27	39	37	0.3
6	24	40	-2.6	17	34	38	-0.8	28	49	37	2.1
7	38	40	-0.3	18	55	38	2.9	29	29	37	-1.4
8	51	39	2.0	19	63	38	4.3	30	42	37	0.9
9	28	39	-1.9	20	49	38	1.9	31	22	37	-2.6
10	40	39	0.1	21	48	38	1.7	32	39	37	0.4
11	32	39	-1.2	22	43	38	0.9	33	37	37	0.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	3836	31684	1.211	4.48	27	258	2184	1.181	0.74
3	2354	21063	1.118	-0.82	28	241	2100	1.148	0.20
4	1891	15753	1.200	2.73	29	221	2022	1.093	-0.63
5	1475	12567	1.174	1.44	30	244	1947	1.253	1.77
6	1231	10443	1.179	1.50	31	201	1881	1.069	-0.92
7	1027	8925	1.151	0.51	32	224	1815	1.234	1.39
8	957	7788	1.229	2.73	33	201	1755	1.145	0.14
9	833	6903	1.207	2.02	34	205	1700	1.206	0.99
10	788	6195	1.272	3.56	35	210	1645	1.277	1.99
11	624	5616	1.111	-0.60	36	189	1593	1.186	0.66
12	591	5133	1.151	0.38	37	171	1548	1.105	-0.39
13	536	4725	1.134	-0.02	38	184	1503	1.224	1.16
14	531	4375	1.214	1.74	39	169	1458	1.159	0.31
15	485	4071	1.191	1.18	40	174	1416	1.229	1.22
16	446	3806	1.172	0.78	41	151	1380	1.094	-0.49
17	406	3570	1.137	0.04	42	164	1344	1.220	1.02
18	434	3363	1.291	2.96	43	133	1308	1.017	-1.42
19	383	3177	1.206	1.35	44	137	1272	1.077	-0.70
20	380	3009	1.263	2.30	45	147	1239	1.186	0.61
21	352	2856	1.232	1.75	46	164	1211	1.354	2.63
22	314	2720	1.154	0.32	47	143	1183	1.209	0.81
23	299	2595	1.152	0.29	48	119	1155	1.030	-1.16
24	281	2478	1.134	-0.02	49	109	1127	0.967	-1.85
25	249	2373	1.049	-1.38	50	120	1099	1.092	-0.47
26	275	2275	1.209	1.18	51	108	1071	1.008	-1.40

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	354	78	6.24	12.48	28.8
5	353	47	0.63	75.65	59.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	216	63	0 6 4 9	
5	171	165	1 2 9 8 9	
4	83	49	2 8 7 6	
5	283	63	3 3 5 0 9	
4	63	60	3 4 6 9	
4	31	16	4 9 3 4	
4	75	52	5 8 1 9	
8	225	18	6 4 7 1 7 3 1 9	
8	225	45	6 4 7 1 7 3 1 9	
8	225	64	6 4 7 1 7 3 1 9	
8	243	27	6 4 7 1 7 3 1 9	
8	243	46	6 4 7 1 7 3 1 9	
8	270	19	6 4 7 1 7 3 1 9	
4	125	76	6 9 5 8	
6	187	22	7 1 7 3 1 9	
6	187	40	7 1 7 3 1 9	
6	187	58	7 1 7 3 1 9	
6	187	85	7 1 7 3 1 9	
6	187	104	7 1 7 3 1 9	
6	209	18	7 1 7 3 1 9	
6	209	36	7 1 7 3 1 9	
6	209	63	7 1 7 3 1 9	
6	209	82	7 1 7 3 1 9	
4	119	202	7 4 7 9	
4	153	28	7 9 1 4	
6	3	16	8 9 3 7 0 9	
4	32	229	9 3 4 1	
4	48	258	9 3 4 3	
5	45	121	9 3 4 9 3	
4	94	79	9 8 9 1	
4	78	260	9 8 9 7	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 7 4 7 9 3 Z 359
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 400 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	19							
1	36	IC TESTS FOR SIGNIFICANCE				TOTAL		
2	40	MONO IC 1.1004 SIGMAGE	9.4	400			8761	7980
3	47	DIGRAPHIC TESTS						
4	39	DIGRAPH IC 1.340 SIGMAGE	9.6	399			1064	794
5	35	CUT A IC 1.884 SIGMAGE	12.6	200			375	199
6	28	CUT B IC 1.579 SIGMAGE	8.2	199			311	197
7	58	TRIGRAPHIC TESTS						
8	29	TRIGRAPH IC 2.11 SIGMAGE	9.9	398			167	79.00
9	69	CUT A IC 2.96 SIGMAGE	5.8	133			26	8.78
		CUT B IC 2.39 SIGMAGE	4.1	133			21	8.78
		CUT C IC 2.43 SIGMAGE	4.2	132			21	8.65

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	47	44	0.5	12	46	43	0.5	23	39	41	-0.4
2	50	44	1.0	13	46	43	0.6	24	41	41	-0.1
3	39	44	-0.7	14	48	42	0.9	25	31	41	-1.7
4	48	44	0.7	15	40	42	-0.4	26	38	41	-0.5
5	36	43	-1.2	16	48	42	0.9	27	29	41	-2.0
6	49	43	0.9	17	38	42	-0.7	28	45	41	0.7
7	42	43	-0.2	18	49	42	1.1	29	40	41	-0.1
8	45	43	0.3	19	29	42	-2.1	30	38	41	-0.4
9	44	43	0.2	20	56	42	2.3	31	34	41	-1.1
10	44	43	0.2	21	35	42	-1.1	32	46	40	0.9
11	31	43	-1.9	22	51	42	1.5	33	41	40	0.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4902	39800	1.232	8.84	27	309	2765	1.118	0.32
3	2919	26467	1.103	0.16	28	332	2660	1.248	2.52
4	2452	19800	1.238	6.49	29	284	2561	1.109	0.15
5	1713	15800	1.084	-0.67	30	289	2470	1.170	1.19
6	1621	13134	1.234	5.09	31	275	2382	1.154	0.86
7	1254	11229	1.117	0.60	32	287	2304	1.246	2.34
8	1190	9800	1.214	3.76	33	261	2226	1.173	1.17
9	987	8690	1.136	1.12	34	264	2156	1.224	1.98
10	950	7800	1.218	3.42	35	218	2090	1.043	-0.86
11	814	7074	1.151	1.43	36	256	2024	1.265	2.48
12	805	6468	1.245	3.92	37	214	1965	1.089	-0.17
13	632	5955	1.061	-1.01	38	234	1910	1.225	1.88
14	667	5516	1.209	2.73	39	204	1855	1.100	0.00
15	546	5135	1.063	-0.89	40	216	1800	1.200	1.40
16	608	4800	1.267	3.84	41	179	1755	1.020	-1.12
17	501	4508	1.111	0.24	42	210	1710	1.228	1.79
18	526	4246	1.239	3.06	43	168	1665	1.009	-1.27
19	452	4011	1.127	0.57	44	206	1620	1.272	2.24
20	474	3800	1.247	3.09	45	175	1580	1.108	0.10
21	402	3610	1.114	0.28	46	222	1544	1.438	4.39
22	450	3438	1.309	4.18	47	154	1508	1.021	-1.03
23	388	3281	1.183	1.58	48	182	1472	1.236	1.77
24	383	3136	1.221	2.30	49	137	1436	0.954	-1.90
25	311	3000	1.037	-1.13	50	170	1400	1.214	1.48
26	341	2880	1.184	1.51	51	155	1372	1.130	0.36

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	397	51	7.87	6.49	15.5
5	396	23	0.79	29.41	25.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
6	43	12	0 9 1 4	7 9
6	55	6	0 9 1 4	7 9
4	352	10	1 9 3 2	
7	23	48	1 9 5 5	6 9 9
4	71	87	1 9 5 5	
4	103	150	2 2 7 3	
4	103	216	2 2 7 3	
4	103	252	2 2 7 3	
4	231	22	2 2 7 3	
4	231	88	2 2 7 3	
4	231	124	2 2 7 3	
4	253	66	2 2 7 3	
4	319	36	2 2 7 3	
4	51	319	2 8 9 3	
4	145	96	2 9 8 9	
6	252	102	3 2 2 7	3 8
4	16	274	3 4 3 1	
4	94	131	3 7 9 1	
5	22	135	4 1 9 5	5
4	121	212	5 9 4 7	
4	107	202	5 9 7 9	
8	1	276	7 4 7 9	3 4 6 9
4	95	216	7 9 1 4	
4	173	31	8 3 3 5	
8	42	18	9 0 9 1	4 7 9 5
5	102	128	9 2 2 7	3
4	12	272	9 2 9 3	
8	77	220	9 7 2 9	5 5 1 1

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

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DATA IDENT 0 6 8 4 3 Z 180

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 434 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	31							
1	48	IC TESTS FOR SIGNIFICANCE						
2	62	MONO IC 1.1025 SIGMAGE	10.4	434			10359	9396
3	47	DIGRAPHIC TESTS						
4	71	DIGRAPH IC 1.412 SIGMAGE	12.7	433			1321	935
5	18	CUT A IC 1.946 SIGMAGE	14.6	217			456	234
6	43	CUT B IC 1.391 SIGMAGE	6.0	216			323	232
7	26	TRIGRAPHIC TESTS						
8	38	TRIGRAPH IC 2.61 SIGMAGE	15.6	432			243	93.10
9	50	CUT A IC 2.82 SIGMAGE	5.9	144			29	10.30
		CUT B IC 2.52 SIGMAGE	4.9	144			26	10.30
		CUT C IC 2.91 SIGMAGE	6.2	144			30	10.30

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	54	48	1.0	12	53	46	1.0	23	37	45	-1.3
2	51	48	0.5	13	53	46	1.0	24	32	45	-2.1
3	55	47	1.2	14	36	46	-1.6	25	40	45	-0.8
4	45	47	-0.4	15	43	46	-0.5	26	44	45	-0.1
5	57	47	1.5	16	44	46	-0.3	27	36	45	-1.4
6	56	47	1.4	17	44	46	-0.3	28	53	45	1.3
7	43	47	-0.6	18	42	46	-0.6	29	44	45	-0.1
8	47	47	0.0	19	49	46	0.5	30	45	44	0.1
9	36	47	-1.7	20	51	46	0.9	31	37	44	-1.2
10	41	47	-0.9	21	45	45	-0.1	32	46	44	0.3
11	51	47	0.7	22	46	45	0.1	33	44	44	0.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	5426	46872	1.158	3.96	27	393	3272	1.201	1.86
3	3413	31176	1.095	-0.47	28	389	3150	1.235	2.51
4	2774	23328	1.189	4.39	29	325	3031	1.072	-0.56
5	2031	18619	1.091	-0.55	30	306	2926	1.046	-1.03
6	1765	15480	1.140	1.52	31	315	2821	1.117	0.25
7	1481	13237	1.119	0.61	32	366	2730	1.341	4.05
8	1371	11556	1.186	2.99	33	302	2639	1.144	0.70
9	1137	10248	1.109	0.20	34	297	2556	1.162	1.00
10	1040	9202	1.130	0.86	35	282	2478	1.138	0.60
11	879	8346	1.053	-1.50	36	312	2400	1.300	3.15
12	887	7632	1.162	1.71	37	239	2332	1.025	-1.25
13	752	7029	1.070	-0.92	38	242	2266	1.068	-0.56
14	762	6510	1.171	1.84	39	224	2200	1.018	-1.36
15	630	6062	1.039	-1.66	40	248	2140	1.159	0.84
16	699	5670	1.233	3.25	41	239	2085	1.146	0.65
17	595	5325	1.117	0.34	42	236	2030	1.163	0.90
18	600	5016	1.196	2.23	43	215	1975	1.089	-0.21
19	500	4741	1.055	-1.10	44	208	1926	1.080	-0.35
20	539	4494	1.199	2.11	45	187	1881	0.994	-1.53
21	481	4270	1.126	0.51	46	212	1836	1.155	0.73
22	432	4066	1.062	-0.86	47	200	1791	1.117	0.20
23	425	3879	1.096	-0.15	48	195	1746	1.117	0.20
24	425	3708	1.146	0.86	49	180	1708	1.054	-0.69
25	347	3553	0.977	-2.52	50	190	1672	1.136	0.46
26	383	3408	1.124	0.40	51	178	1636	1.088	-0.21

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	431	98	9.26	10.58	29.3
5	430	73	0.93	79.14	75.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED	TEXT
6	227	114	1 1 5 8 9 4	
6	289	52	1 1 5 8 9 4	
6	341	20	1 1 5 8 9 4	
4	204	214	1 7 4 4	
4	11	158	2 3 8 4	
5	7	312	2 8 4 2 2	
10	223	134	3 2 2 3 1 1 5 8 9 4	
20	285	-72	3 2 2 3 1 1 5 8 9 4 8 3 9 2	
			6 4 6 4 6 6	
12	221	62	3 9 3 2 2 3 1 1 5 8 9 4	
4	385	22	3 9 4 2	
18	33	224	4 0 2 2 4 2 3 4 2 3 2 1 9 0	
			7 4 9 4	
4	40	347	4 2 3 2	
4	264	123	4 2 3 2	
4	21	54	4 2 9 2	
12	21	128	4 2 9 2 6 3 1 6 9 2 3 1	
4	75	74	4 2 9 2	
4	199	178	6 0 4 4	
6	103	232	6 3 9 2 1 4 1 1	
4	98	144	6 6 6 4	
4	165	40	7 4 4 4	
6	171	18	8 4 6 6 7 4	
4	77	28	9 2 1 4	
4	77	260	9 2 1 4	
12	60	150	9 7 0 8 2 5 0 1 8 1 3 3	
4	277	72	9 9 8 0	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT 6 5 9 8 2 Z 313

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MONO
COUNT

for interpretation of this run call P 1 on x 3957

TOTAL 415 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	39							
1	46	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	69	MONO IC 1.1141	SIGMAGE	11.1	415		9571	8590
3	27	DIGRAPHIC TESTS						
4	66	DIGRAPH IC 1.479	SIGMAGE	14.1	414		1264	855
5	16	CUT A IC 1.942	SIGMAGE	13.9	207		414	213
6	38	CUT B IC 1.623	SIGMAGE	9.2	207		346	213
7	34	TRIGRAPHIC TESTS						
8	37	TRIGRAPH IC 3.03	SIGMAGE	18.8	413		258	85.08
9	43	CUT A IC 2.43	SIGMAGE	4.4	138		23	9.45
		CUT B IC 2.22	SIGMAGE	3.8	138		21	9.45
		CUT C IC 2.36	SIGMAGE	4.2	137		22	9.32

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	30	46	-2.5	12	46	45	0.2	23	37	44	-1.0
2	55	46	1.4	13	39	45	-0.9	24	36	43	-1.2
3	47	46	0.2	14	54	45	1.5	25	33	43	-1.7
4	49	46	0.5	15	42	44	-0.4	26	52	43	1.4
5	44	46	-0.2	16	29	44	-2.4	27	45	43	0.3
6	46	45	0.1	17	41	44	-0.5	28	51	43	1.3
7	34	45	-1.8	18	40	44	-0.6	29	46	43	0.5
8	46	45	0.1	19	45	44	0.2	30	42	43	-0.1
9	47	45	0.3	20	46	44	0.3	31	38	43	-0.8
10	49	45	0.6	21	50	44	1.0	32	49	43	1.1
11	37	45	-1.2	22	42	44	-0.3	33	39	42	-0.6

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	5142	42849	1.200	5.93	27	373	2985	1.250	2.45
3	3149	28497	1.105	-0.50	28	335	2870	1.167	0.95
4	2527	21321	1.185	3.48	29	285	2765	1.031	-1.49
5	1859	17015	1.093	-0.92	30	310	2665	1.163	0.83
6	1669	14145	1.180	2.64	31	303	2574	1.177	1.07
7	1312	12095	1.085	-1.07	32	296	2484	1.192	1.33
8	1239	10557	1.174	2.04	33	258	2406	1.072	-0.67
9	1064	9361	1.137	0.74	34	261	2328	1.121	0.11
10	1006	8405	1.197	2.57	35	244	2255	1.082	-0.51
11	831	7622	1.090	-0.70	36	293	2189	1.339	3.60
12	818	6970	1.174	1.68	37	223	2123	1.050	-0.96
13	742	6417	1.156	1.13	38	258	2060	1.252	2.07
14	688	5945	1.157	1.12	39	212	2005	1.057	-0.86
15	612	5535	1.106	-0.20	40	254	1950	1.303	2.84
16	603	5175	1.165	1.22	41	222	1895	1.172	0.87
17	508	4860	1.045	-1.59	42	216	1845	1.171	0.80
18	607	4577	1.326	4.88	43	216	1800	1.200	1.20
19	491	4326	1.135	0.46	44	193	1755	1.100	-0.20
20	494	4100	1.205	1.91	45	198	1710	1.158	0.62
21	446	3895	1.145	0.65	46	196	1665	1.177	0.88
22	444	3708	1.197	1.66	47	165	1628	1.014	-1.30
23	372	3537	1.052	-1.24	48	172	1592	1.080	-0.44
24	378	3383	1.117	0.06	49	155	1556	0.996	-1.53
25	346	3240	1.068	-0.87	50	182	1520	1.197	1.08
26	375	3105	1.208	1.79	51	150	1484	1.011	-1.34

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	412	118	8.46	13.94	37.8
5	411	78	0.85	92.57	84.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED	TEXT
6	106	72	0 4 2 3 3 2	
4	87	186	0 4 8 1	
4	87	310	0 4 8 1	
16	273	124	0 4 8 1 2 9 4 9 6 0 0 1 9 2	
5	210	158	1 2 4 1 2	
4	95	32	1 2 4 3	
4	13	86	1 2 8 2	
4	13	328	1 2 8 2	
4	99	152	1 2 8 2	
4	99	242	1 2 8 2	
5	251	90	1 2 8 2 5	
4	391	4	1 4 0 4	
5	23	280	1 9 4 7 9	
5	12	238	2 1 2 8 2	
5	183	60	2 6 6 4 6	
5	5	286	2 8 4 2 8	
4	48	166	2 9 2 8	
4	152	62	2 9 2 8	
4	214	48	2 9 2 8	
4	214	166	2 9 2 8	
4	338	54	4 0 4 1	
4	17	201	4 0 6 4	
7	107	221	4 2 3 3 2 7 2	
5	179	149	4 2 3 3 2	
4	30	162	4 2 8 6	
15	44	332	4 5 7 7 2 9 2 8 2 1 0 7 9 3	
4	79	43	4 7 3 2	
4	122	43	4 7 3 2	
11	45	104	5 7 7 2 9 2 8 2 1 0 7 9	
12	45	214	5 7 7 2 9 2 8 2 1 0 7 9	
11	149	110	5 7 7 2 9 2 8 2 1 0 7 9	
11	149	228	5 7 7 2 9 2 8 2 1 0 7 9	
12	259	118	5 7 7 2 9 2 8 2 1 0 7 9	
4	63	124	6 0 8 4	
6	77	86	6 6 4 7 3 2	
4	195	168	6 9 7 4	
4	123	166	7 3 2 8	
8	201	94	8 3 9 2 6 4 6 4	
4	6	185	8 4 2 8	
4	191	101	8 4 2 8	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT u f j f w D 100
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 300 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	10												
b	8	IC TESTS FOR SIGNIFICANCE											
c	9	MONO IC	1.0765	SIGMAGE	3.2	300				1857	1725		
d	8	DIGRAPHIC TESTS											
e	6	DIGRAPH IC	1.426	SIGMAGE	3.5	299			94	66			
f	18	CUT A IC	1.391	SIGMAGE	1.6	150			23	17			
g	10	CUT B IC	1.349	SIGMAGE	1.4	149			22	16			
h	20	TRIGRAPHIC TESTS											
i	15	TRIGRAPH IC	3.97	SIGMAGE	4.7	298			10	2.52			
j	17	CUT A IC	7.14	SIGMAGE	3.3	100			2	0.28			
k	8	CUT B IC	0.00	SIGMAGE	-0.5	99			0	0.28			
l	21	CUT C IC	0.00	SIGMAGE	-0.5	99			0	0.28			
m	17	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	8	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	14	1	13	12	0.2	12	15	12	0.9	23	18	11	2.0
p	12	2	15	12	0.8	13	13	12	0.4	24	9	11	-0.7
q	4	3	6	12	-1.8	14	14	12	0.7	25	22	11	3.3
r	3	4	5	12	-2.1	15	7	12	-1.4	26	6	11	-1.6
s	11	5	6	12	-1.8	16	16	12	1.3	27	7	11	-1.3
t	13	6	18	12	1.7	17	11	12	-0.2	28	10	11	-0.4
u	16	7	8	12	-1.2	18	6	12	-1.7	29	13	11	0.6
v	14	8	6	12	-1.8	19	13	12	0.4	30	5	11	-1.9
w	11	9	12	12	0.0	20	11	11	-0.1	31	12	11	0.3
x	10	10	13	12	0.3	21	10	11	-0.4	32	15	11	1.2
y	9	11	14	12	0.6	22	11	11	-0.1	33	13	11	0.6
z	8	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	954	22350	1.110	0.99	27	59	1518	1.011	-0.53
3	604	14850	1.058	-0.46	28	56	1460	0.997	-0.64
4	461	11100	1.080	0.06	29	52	1405	0.962	-0.92
5	393	8850	1.155	1.48	30	58	1350	1.117	0.28
6	306	7350	1.082	0.09	31	66	1305	1.315	1.67
7	235	6279	0.973	-1.66	32	59	1260	1.217	0.98
8	208	5476	0.988	-1.34	33	48	1215	1.027	-0.35
9	198	4851	1.061	-0.22	34	58	1176	1.282	1.44
10	185	4350	1.106	0.38	35	50	1140	1.140	0.44
11	152	3942	1.003	-0.96	36	47	1104	1.107	0.21
12	168	3600	1.213	1.63	37	41	1068	0.998	-0.55
13	138	3312	1.083	0.07	38	43	1036	1.079	0.01
14	111	3066	0.941	-1.50	39	46	1008	1.187	0.66
15	138	2850	1.259	2.00	40	31	980	0.822	-1.53
16	113	2664	1.103	0.26	41	29	952	0.792	-1.71
17	113	2499	1.176	0.99	42	25	924	0.703	-2.24
18	99	2352	1.094	0.17	43	39	897	1.130	0.32
19	96	2220	1.124	0.42	44	34	876	1.009	-0.41
20	76	2100	0.941	-1.22	45	39	855	1.186	0.65
21	66	1995	0.860	-1.95	46	34	834	1.060	-0.10
22	62	1898	0.849	-2.05	47	40	813	1.279	1.21
23	71	1807	1.022	-0.50	48	36	792	1.182	0.63
24	71	1728	1.068	-0.07	49	29	771	0.978	-0.59
25	109	1650	1.718	5.13	50	47	750	1.629	3.31
26	66	1584	1.083	0.05	51	31	735	1.097	0.10

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	1	0.09	10.40	2.9
5	296	0	0.01	0.00	-0.1

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PAGE 2

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

6. 2

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT x v d q g D 110
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 410 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	11										
b	29	IC TESTS FOR SIGNIFICANCE									
c	9	MONO IC	1.1929	SIGMAGE	11.1	410			3847	3224	
d	18	DIGRAPHIC TESTS									
e	9	DIGRAPH IC	2.325	SIGMAGE	14.8	409			287	123	
f	14	CUT A IC	2.134	SIGMAGE	6.3	205			66	31	
g	17	CUT B IC	4.995	SIGMAGE	22.2	204			153	31	
h	13	TRIGRAPHIC TESTS									
i	9	TRIGRAPH IC	9.96	SIGMAGE	19.5	408			47	4.72	
j	4	CUT A IC	13.46	SIGMAGE	9.0	136			7	0.52	
k	27	CUT B IC	13.46	SIGMAGE	9.0	136			7	0.52	
l	11	CUT C IC	7.69	SIGMAGE	4.9	136			4	0.52	
m	9	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	3	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	11	1 6 19 -3.0 12 21 18 0.6 23 13 18 -1.2									
p	15	2 17 19 -0.4 13 14 18 -1.0 24 15 18 -0.7									
q	28	3 21 19 0.5 14 22 18 0.9 25 20 18 0.6									
r	28	4 14 19 -1.1 15 23 18 1.2 26 24 18 1.5									
s	15	5 15 19 -0.9 16 20 18 0.5 27 17 18 -0.2									
t	8	6 30 19 2.7 17 16 18 -0.5 28 22 18 1.1									
u	28	7 16 19 -0.6 18 17 18 -0.2 29 14 18 -0.9									
v	27	8 18 18 -0.1 19 19 18 0.2 30 17 17 -0.1									
w	8	9 20 18 0.4 20 11 18 -1.7 31 15 17 -0.6									
x	16	10 22 18 0.9 21 17 18 -0.2 32 20 17 0.6									
y	23	11 17 18 -0.3 22 16 18 -0.4 33 24 17 1.6									
z	20	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1961	41820	1.219	1.07	27	141	2910	1.260	0.74
3	1441	27812	1.347	5.08	28	122	2800	1.133	-0.66
4	939	20808	1.173	-0.58	29	120	2695	1.158	-0.55
5	747	16605	1.170	-0.60	30	123	2600	1.230	0.37
6	728	13804	1.371	4.27	31	122	2509	1.264	0.71
7	546	11803	1.203	0.22	32	114	2424	1.223	0.30
8	466	10302	1.176	-0.34	33	127	2346	1.408	2.15
9	453	9135	1.289	1.82	34	95	2268	1.089	-1.04
10	362	8200	1.148	-0.81	35	99	2200	1.170	-0.21
11	325	7437	1.136	-0.97	36	102	2134	1.243	0.45
12	338	6800	1.292	1.68	37	109	2068	1.370	1.59
13	280	6262	1.163	-0.48	38	95	2010	1.229	0.32
14	265	5800	1.188	-0.08	39	95	1955	1.263	0.63
15	263	5400	1.266	1.10	40	88	1900	1.204	0.10
16	232	5050	1.194	0.01	41	107	1845	1.508	2.84
17	204	4740	1.119	-1.04	42	94	1800	1.358	1.49
18	221	4466	1.287	1.22	43	72	1755	1.067	-1.01
19	198	4221	1.220	0.35	44	72	1710	1.095	-0.78
20	182	4000	1.183	-0.13	45	80	1665	1.249	0.45
21	197	3800	1.348	1.86	46	82	1624	1.313	0.96
22	159	3618	1.143	-0.60	47	73	1588	1.195	0.02
23	165	3451	1.243	0.60	48	79	1552	1.323	1.04
24	163	3298	1.285	1.10	49	59	1516	1.012	-1.45
25	144	3160	1.185	-0.09	50	62	1480	1.089	-0.83
26	137	3030	1.176	-0.19	51	68	1444	1.224	0.25

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	407	22	0.19	121.68	51.4
5	406	13	0.01	1879.96	156.6

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STETHOSCOPE PROGRAM PAGE 2
LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	60	40	b m d c
6	60	262	b m d c o l
4	100	222	b m d c
4	172	22	g h a r
6	38	186	k f u o s r
4	42	226	s r z k
6	200	116	u y p y h q
9	1	292	x v d q g y u u s
6	20	84	y w u q b l

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
DATA IDENT f o r o f D 111
for interpretation of this run call P 1 on x 3957

MONO
JULIIT

TOTAL 300 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	9										
b	6	IC TESTS FOR SIGNIFICANCE				TOTAL					
c	5	MONO IC	1.2533	SIGMAGE	10.7	300			2162	1725	
d	12	DIGRAPHIC TESTS									
e	14	DIGRAPH IC	3.535	SIGMAGE	20.6	299			233	66	
f	20	CUT A IC	2.904	SIGMAGE	7.8	150			48	17	
g	9	CUT B IC	3.311	SIGMAGE	9.4	149			54	16	
h	10	TRIGRAPHIC TESTS									
i	28	TRIGRAPH IC	17.46	SIGMAGE	26.2	298			44	2.52	
j	13	CUT A IC	28.57	SIGMAGE	14.7	100			8	0.28	
k	18	CUT B IC	10.71	SIGMAGE	5.1	99			3	0.28	
l	13	CUT C IC	25.00	SIGMAGE	12.7	99			7	0.28	
m	8	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	8	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	29	1 6 14	-2.3	12	14	14	0.0	23	15	13	0.5
p	15	2 6 14	-2.2	13	7	14	-1.9	24	19	13	1.6
q	10	3 14 14	-0.1	14	12	14	-0.5	25	16	13	0.8
r	20	4 16 14	0.5	15	16	14	0.6	26	21	13	2.2
s	12	5 21 14	1.9	16	16	14	0.7	27	13	13	0.0
t	7	6 11 14	-0.8	17	9	14	-1.3	28	12	13	-0.3
u	9	7 10 14	-1.1	18	14	14	0.1	29	21	13	2.3
v	4	8 16 14	0.5	19	16	13	0.7	30	22	13	2.6
w	9	9 17 14	0.8	20	14	13	0.2	31	19	13	1.7
x	5	10 13 14	-0.3	21	19	13	1.6	32	15	13	0.
y	4	11 11 14	-0.8	22	7	13	-1.8	33	13	13	0.1
z	3	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1047	22350	1.218	-1.05	27	80	1518	1.370	0.94
3	775	14850	1.357	2.50	28	66	1460	1.175	-0.62
4	549	11100	1.286	0.69	29	79	1405	1.462	1.67
5	487	8850	1.431	3.38	30	82	1350	1.579	2.28
6	366	7350	1.295	0.71	31	64	1305	1.275	0.15
7	294	6279	1.217	-0.58	32	57	1260	1.176	-0.54
8	276	5476	1.310	0.86	33	57	1215	1.220	-0.23
9	247	4851	1.324	0.99	34	39	1176	0.862	-2.74
10	231	4350	1.381	1.66	35	54	1140	1.232	-0.15
11	171	3942	1.128	-1.63	36	67	1104	1.578	2.28
12	189	3600	1.365	1.34	37	53	1068	1.290	0.26
13	171	3312	1.342	1.07	38	32	1036	0.803	-2.70
14	126	3066	1.068	-2.04	39	55	1008	1.419	1.00
15	167	2850	1.524	2.98	40	57	980	1.512	1.55
16	134	2664	1.308	0.55	41	43	952	1.174	-0.47
17	104	2499	1.082	-1.71	42	43	924	1.210	-0.26
18	124	2352	1.371	1.18	43	39	897	1.130	-0.74
19	81	2220	0.949	-2.74	44	45	876	1.336	0.50
20	110	2100	1.362	0.98	45	46	855	1.399	0.88
21	100	1995	1.303	0.45	46	42	834	1.309	0.34
22	83	1898	1.137	-1.04	47	30	813	0.959	-1.76
23	99	1807	1.424	1.54	48	42	792	1.379	0.76
24	93	1728	1.399	1.17	49	42	771	1.416	0.98
25	86	1650	1.355	0.82	50	43	750	1.491	1.43
26	83	1584	1.362	0.87	51	35	735	1.238	-0.08

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	8	0.09	83.16	25.5
5	296	0	0.01	0.00	-0.1

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LIST OF HITS OF LENGTH 4 OR LONGER

STETHOSCOPE PROGRAM

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
4	16	44	1 f o r
4	120	26	1 p o i
4	65	25	o a s d
4	32	89	p o i e
4	81	16	p o i r
4	176	30	q a w s
4	31	65	q p o i
4	111	54	u i o k

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b f d y o D 113
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 196 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	14										
b	8	IC TESTS FOR SIGNIFICANCE									
c	8	MONO IC 1.1687 SIGMAGE				4.6	196		859	735	
d	5	DIGRAPHIC TESTS									
e	10	DIGRAPH IC 1.930 SIGMAGE				4.9	195		54	28	
f	12	CUT A IC 1.991 SIGMAGE				2.6	98		14	7	
g	7	CUT B IC 1.597 SIGMAGE				1.6	97		11	7	
h	4	TRIGRAPHIC TESTS									
i	8	TRIGRAPH IC 3.74 SIGMAGE				2.8	194		4	1.07	
j	6	CUT A IC 0.00 SIGMAGE				-0.3	65		0	0.12	
k	4	CUT B IC 8.33 SIGMAGE				2.5	65		1	0.12	
l	9	CUT C IC 0.00 SIGMAGE				-0.3	64		0	0.11	
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	3	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	18	1 4 9 -1.7 12 5 8 -1.2 23 3 8 -1.8									
p	5	2 11 9 0.8 13 6 8 -0.8 24 3 8 -1.7									
q	7	3 8 9 -0.2 14 2 8 -2.2 25 11 8 1.2									
r	8	4 4 9 -1.6 15 13 8 1.7 26 3 8 -1.7									
s	5	5 9 9 0.1 16 6 8 -0.8 27 14 8 2.4									
t	2	6 8 9 -0.2 17 13 8 1.8 28 9 8 0.5									
u	13	7 11 9 0.9 18 11 8 1.1 29 11 8 1.3									
v	2	8 7 8 -0.5 19 5 8 -1.1 30 11 7 1.3									
w	5	9 5 8 -1.2 20 14 8 2.2 31 5 7 -0.9									
x	8	10 17 8 3.1 21 5 8 -1.0 32 8 7 0.2									
y	16	11 5 8 -1.2 22 9 8 0.4 33 7 7 -0.1									
z	4	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	416	9506	1.138	-0.62	27	29	616	1.224	0.28
3	301	6305	1.241	1.15	28	22	588	0.973	-0.98
4	199	4704	1.100	-0.97	29	28	567	1.284	0.58
5	211	3744	1.465	3.55	30	34	546	1.619	2.25
6	138	3104	1.156	-0.14	31	26	525	1.288	0.60
7	116	2646	1.140	-0.29	32	25	504	1.290	0.48
8	99	2304	1.117	-0.52	33	22	485	1.179	0.04
9	87	2037	1.110	-0.53	34	25	470	1.383	0.86
10	111	1824	1.582	3.72	35	21	455	1.200	0.12
11	75	1649	1.183	0.11	36	10	440	0.591	-2.31
12	57	1504	0.985	-1.47	37	22	425	1.346	0.71
13	48	1380	0.904	-1.86	38	18	410	1.141	-0.11
14	47	1274	0.959	-1.47	39	21	395	1.382	0.85
15	75	1183	1.648	3.35	40	23	384	1.557	1.55
16	47	1104	1.107	-0.43	41	12	374	0.834	-1.34
17	54	1034	1.358	1.13	42	15	364	1.071	-0.39
18	32	970	0.858	-1.87	43	17	354	1.249	0.32
19	41	915	1.165	-0.02	44	15	344	1.134	-0.14
20	53	864	1.595	2.56	45	15	334	1.168	0.00
21	32	819	1.016	-0.92	46	15	324	1.204	0.14
22	32	776	1.072	-0.58	47	11	314	0.911	-1.03
23	31	740	1.089	-0.48	48	16	304	1.368	0.60
24	29	704	1.071	-0.49	49	21	294	1.857	2.06
25	39	672	1.509	1.70	50	18	288	1.625	1.37
26	20	644	0.807	-1.81	51	12	282	1.106	-0.19

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	193	0	0.05	0.00	-0.2
5	192	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964

~~CONFIDENTIAL~~

DATA IDENT k a b z w D 114

for interpretation of this run call P 1 on x 3957

MONO
COUNT

TOTAL 285 DITS 0

		IC TESTS FOR SIGNIFICANCE		TOTAL	HITS OBSERVED	HITS EXPECTED
a	25					
b	7	MONO IC	1.6267	25.2	2532	1556
c	14					
d	8	DIGRAPHIC TESTS				
e	18	DIGRAPH IC	5.551	35.2	330	59
f	10	CUT A IC	6.753	22.2	100	15
g	3	CUT B IC	4.524	13.6	67	15
h	7	TRIGRAPHIC TESTS				
i	12	TRIGRAPH IC	24.23	35.1	55	2.27
j	4	CUT A IC	32.00	15.7	8	0.25
k	43	CUT B IC	20.00	9.5	5	0.25
l	1	CUT C IC	24.00	11.5	6	0.25
m	21	LOCAL ROUGHNESS OFFSETS 1 TO 33				
n	6	OFF	OBS	EXP	SIGMA	OFF
o	13	1	6	18	-2.9	12
p	1	2	8	18	-2.4	13
q	2	3	19	18	0.3	14
r	10	4	12	18	-1.4	15
s	1	5	16	18	-0.4	16
t	9	6	17	18	-0.1	17
u	22	7	25	18	1.8	18
v	3	8	19	17	0.4	19
w	16	9	22	17	1.1	20
x	7	10	15	17	-0.6	21
y	6	11	14	17	-0.8	22
z	16	12	17	17	0.4	23

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	1235	20164	1.592	-0.98	27	79	1365	1.505	-0.85
3	813	13395	1.578	-1.13	28	78	1310	1.548	-0.55
4	612	10011	1.589	-0.76	29	88	1260	1.816	1.32
5	510	7980	1.662	0.63	30	71	1215	1.519	-0.76
6	380	6627	1.491	-2.18	31	82	1170	1.822	1.37
7	360	5660	1.654	0.41	32	72	1128	1.660	0.23
8	321	4935	1.691	0.90	33	63	1092	1.500	-0.89
9	294	4371	1.749	1.59	34	79	1056	1.945	2.23
10	244	3920	1.618	-0.12	35	66	1020	1.682	0.33
11	219	3550	1.604	-0.28	36	70	987	1.844	1.30
12	184	3243	1.475	-1.67	37	60	959	1.627	0.00
13	205	2982	1.787	1.76	38	62	931	1.731	0.62
14	164	2760	1.545	-0.90	39	48	903	1.382	-1.47
15	161	2565	1.632	0.05	40	65	875	1.931	1.82
16	148	2397	1.605	-0.22	41	65	849	1.991	2.18
17	160	2248	1.851	2.24	42	42	828	1.319	-1.85
18	147	2115	1.807	1.62	43	44	807	1.418	-1.25
19	132	1995	1.720	0.84	44	59	786	1.952	1.95
20	115	1890	1.582	-0.41	45	44	765	1.495	-0.79
21	101	1794	1.464	-1.47	46	39	744	1.363	-1.58
22	103	1704	1.572	-0.44	47	39	723	1.402	-1.13
23	86	1626	1.375	-2.02	48	35	705	1.291	-1.68
24	89	1551	1.492	-1.08	49	40	690	1.507	-0.60
25	92	1485	1.611	-0.13	50	41	675	1.579	-0.24
26	85	1420	1.556	-0.57	51	47	660	1.852	1.13

POLYGRAPHIC HITS AND IC					
LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	282	12	0.08	138.41	40.5
5	281	6	0.01	1815.80	104.7

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT r m l g n D 128a
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 340 DITS 0

							HITS OBSERVED	HITS EXPECTED
a	8							
b	8	IC TESTS FOR SIGNIFICANCE						
c	14	MONO IC 0.9894 SIGMAGE	-0.5	340		2193	2216	
d	9	DIGRAPHIC TESTS						
e	13	DIGRAPH IC 1.074 SIGMAGE	0.7	339		91	85	
f	17	CUT A IC 1.224 SIGMAGE	1.0	170		26	21	
g	13	CUT B IC 1.000 SIGMAGE	0.0	169		21	21	
h	19	TRIGRAPHIC TESTS						
i	13	TRIGRAPH IC 1.85 SIGMAGE	1.5	338		6	3.24	
j	13	CUT A IC 0.00 SIGMAGE	-0.6	113		0	0.36	
k	16	CUT B IC 2.78 SIGMAGE	1.1	113		1	0.36	
l	15	CUT C IC 0.00 SIGMAGE	-0.6	112		0	0.35	
m	19	LOCAL ROUGHNESS OFFSETS 1 TO 33						
n	10	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE						
o	9	1 11 13 -0.5 12 13 12 0.2 23 14 12 0.6						
p	13	2 13 13 0.0 13 14 12 0.5 24 9 12 -0.9						
q	18	3 16 13 0.9 14 18 12 1.6 25 7 12 -1.5						
r	7	4 7 13 -1.6 15 10 12 -0.7 26 7 12 -1.5						
s	14	5 13 13 0.1 16 13 12 0.2 27 12 12 0.0						
t	12	6 13 13 0.1 17 15 12 0.8 28 11 12 -0.3						
u	16	7 13 13 0.1 18 9 12 -0.9 29 12 12 0.1						
v	12	8 12 13 -0.2 19 10 12 -0.6 30 14 12 0.7						
w	14	9 20 13 2.1 20 11 12 -0.3 31 25 12 3.9						
x	15	10 8 13 -1.3 21 16 12 1.1 32 14 12 0.7						
y	13	11 8 13 -1.3 22 5 12 -2.1 33 15 12 1.0						
z	10	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W						

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1084	28730	0.981	-0.27	27	72	1974	0.948	-0.37
3	733	19097	0.998	0.25	28	77	1896	1.056	0.60
4	534	14280	0.972	-0.41	29	76	1826	1.082	0.84
5	440	11390	1.004	0.32	30	83	1760	1.226	1.90
6	355	9464	0.975	-0.27	31	66	1695	1.012	0.18
7	317	8088	1.019	0.54	32	59	1640	0.935	-0.43
8	255	7056	0.940	-0.83	33	56	1585	0.919	-0.56
9	231	6253	0.960	-0.46	34	52	1530	0.884	-0.84
10	244	5610	1.131	2.13	35	53	1485	0.928	-0.49
11	190	5085	0.971	-0.25	36	48	1440	0.867	-0.98
12	163	4648	0.912	-1.08	37	42	1395	0.783	-1.65
13	161	4277	0.979	-0.13	38	49	1352	0.942	-0.33
14	167	3960	1.096	1.39	39	46	1316	0.909	-0.56
15	146	3685	1.030	0.49	40	53	1280	1.077	0.62
16	125	3444	0.944	-0.54	41	44	1244	0.920	-0.48
17	103	3230	0.829	-1.76	42	48	1208	1.033	0.31
18	112	3042	0.957	-0.35	43	40	1176	0.884	-0.74
19	119	2873	1.077	0.97	44	52	1148	1.178	1.32
20	115	2720	1.099	1.10	45	41	1120	0.952	-0.26
21	101	2584	1.016	0.27	46	50	1092	1.190	1.41
22	87	2460	0.920	-0.69	47	39	1064	0.953	-0.25
23	104	2345	1.153	1.64	48	31	1036	0.778	-1.27
24	71	2240	0.824	-1.65	49	36	1011	0.926	-0.38
25	90	2145	1.091	0.92	50	49	990	1.287	1.79
26	78	2054	0.987	-0.02	51	29	969	0.778	-1.27

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	337	0	0.13	0.00	-0.4
5	336	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b w z k k D 128b
 for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 340 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	15									
b	16	IC TESTS FOR SIGNIFICANCE								
c	11	MONO IC	0.9822	SIGMAGE	-0.8	340		2177	2216	
d	15	DIGRAPHIC TESTS								
e	11	DIGRAPH IC	0.920	SIGMAGE	-0.7	339		78	85	
f	12	CUT A IC	0.988	SIGMAGE	-0.1	170		21	21	
g	10	CUT B IC	1.000	SIGMAGE	0.0	169		21	21	
h	11	TRIGRAPHIC TESTS								
i	11	TRIGRAPH IC	1.54	SIGMAGE	1.0	338		5	3.24	
j	14	CUT A IC	2.78	SIGMAGE	1.1	113		1	0.36	
k	14	CUT B IC	2.78	SIGMAGE	1.1	113		1	0.36	
l	20	CUT C IC	0.00	SIGMAGE	-0.6	112		0	0.35	
m	9	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	6	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	16	1 8 13 -1.4 12 15 12 0.7 23 8 12 -1.2								
p	10	2 11 13 -0.5 13 7 12 -1.6 24 7 12 -1.5								
q	17	3 11 13 -0.5 14 6 12 -1.8 25 16 12 1.2								
r	16	4 13 13 0.1 15 6 12 -1.8 26 9 12 -0.9								
s	13	5 18 13 1.5 16 11 12 -0.4 27 7 12 -1.4								
t	10	6 7 13 -1.6 17 14 12 0.5 28 11 12 -0.3								
u	12	7 9 13 -1.0 18 17 12 1.4 29 9 12 -0.8								
v	10	8 9 13 -1.0 19 16 12 1.1 30 10 12 -0.5								
w	17	9 14 13 0.4 20 17 12 1.4 31 9 12 -0.8								
x	16	10 14 13 0.4 21 6 12 -1.8 32 19 12 2.2								
y	14	11 16 13 1.0 22 8 12 -1.2 33 8 12 -1.1								
z	14	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1118	28730	1.012	1.02	27	64	1974	0.843	-1.25
3	702	19097	0.956	-0.73	28	76	1896	1.042	0.54
4	565	14280	1.029	1.13	29	66	1826	0.940	-0.38
5	468	11390	1.068	1.81	30	62	1760	0.916	-0.53
6	353	9464	0.970	-0.23	31	71	1695	1.089	0.86
7	300	8088	0.964	-0.32	32	80	1640	1.268	2.29
8	274	7056	1.010	0.48	33	49	1585	0.804	-1.42
9	242	6253	1.006	0.38	34	51	1530	0.867	-0.92
10	236	5610	1.094	1.68	35	78	1485	1.366	3.07
11	169	5085	0.864	-1.65	36	53	1440	0.957	-0.20
12	166	4648	0.929	-0.74	37	63	1395	1.174	1.54
13	156	4277	0.948	-0.44	38	59	1352	1.135	1.07
14	145	3960	0.952	-0.39	39	43	1316	0.850	-0.92
15	134	3685	0.945	-0.44	40	44	1280	0.894	-0.62
16	142	3444	1.072	1.08	41	39	1244	0.815	-1.17
17	110	3230	0.885	-1.07	42	48	1208	1.033	0.36
18	115	3042	0.983	0.01	43	39	1176	0.862	-0.84
19	136	2873	1.231	2.74	44	38	1148	0.861	-0.85
20	117	2720	1.118	1.36	45	53	1120	1.230	1.74
21	104	2584	1.046	0.64	46	50	1092	1.190	1.46
22	79	2460	0.835	-1.47	47	36	1064	0.880	-0.71
23	82	2345	0.909	-0.73	48	51	1036	1.280	1.79
24	82	2240	0.952	-0.30	49	25	1011	0.643	-2.03
25	97	2145	1.176	1.75	50	43	990	1.129	0.88
26	85	2054	1.076	0.85	51	31	969	0.832	-0.90

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	337	0	0.13	0.00	-0.4
5	336	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

~~CONFIDENTIAL~~
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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT j 1 d j j D 131
 for interpretation of this run call P 1 on x 3957

CONFIDENTIAL

MONO
COUNT

TOTAL 296 DITS 0

	0							HITS			HITS					
a	15	IC TESTS FOR SIGNIFICANCE						TOTAL			OBSERVED			EXPECTED		
b	16	MONO IC 1.4352 SIGMAGE						18.2 296			2410			1679		
c	22	DIGRAPHIC TESTS														
d	0	DIGRAPH IC 2.650 SIGMAGE						13.2 295			170			64		
e	9	CUT A IC 4.909 SIGMAGE						15.7 148			79			16		
f	18	CUT B IC 2.835 SIGMAGE						7.3 147			45			16		
g	21	TRIGRAPHIC TESTS														
h	0	TRIGRAPH IC 13.88 SIGMAGE						20.2 294			34			2.45		
i	15	CUT A IC 7.41 SIGMAGE						3.4 98			2			0.27		
j	12	CUT B IC 11.11 SIGMAGE						5.3 98			3			0.27		
k	27	CUT C IC 7.41 SIGMAGE						3.4 98			2			0.27		
l	25	LOCAL ROUGHNESS OFFSETS 1 TO 33														
m	16	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE			
n	0	1	13	16	-0.8	12	20	16	1.1	23	14	15	-0.3			
o	11	2	13	16	-0.8	13	25	16	2.5	24	12	15	-0.8			
p	15	3	13	16	-0.8	14	14	16	-0.4	25	6	15	-2.4			
q	17	4	16	16	0.0	15	14	15	-0.4	26	22	15	1.9			
r	2	5	23	16	1.8	16	17	15	0.4	27	9	15	-1.6			
s	10	6	23	16	1.8	17	15	15	-0.1	28	18	15	0.9			
t	0	7	11	16	-1.3	18	12	15	-0.9	29	11	15	-1.0			
u	15	8	16	16	0.0	19	21	15	1.5	30	16	15	0.4			
v	9	9	17	16	0.3	20	15	15	0.0	31	15	15	0.1			
w	16	10	19	16	0.8	21	12	15	-0.8	32	16	15	0.4			
x	0	11	15	16	-0.2	22	24	15	2.4	33	16	14	0.4			
y	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W														
z		W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE					
		2	1253	21756	1.497	1.86	27	79	1475	1.393	-0.34					
		3	759	14455	1.365	-1.68	28	101	1420	1.849	3.31					
		4	608	10804	1.463	0.59	29	70	1365	1.333	-0.71					
		5	496	8614	1.497	1.18	30	83	1314	1.642	1.45					
		6	376	7154	1.367	-1.16	31	82	1269	1.680	1.72					
		7	352	6111	1.498	1.01	32	72	1224	1.529	0.66					
		8	318	5328	1.552	1.76	33	63	1180	1.388	-0.33					
		9	250	4720	1.377	-0.81	34	61	1144	1.386	-0.34					
		10	255	4234	1.566	1.70	35	65	1108	1.525	0.63					
		11	211	3835	1.431	-0.05	36	58	1072	1.407	-0.20					
		12	182	3504	1.350	-1.02	37	53	1036	1.330	-0.63					
		13	175	3223	1.412	-0.25	38	51	1008	1.315	-0.72					
		14	178	2982	1.552	1.29	39	42	980	1.114	-1.93					
		15	164	2774	1.537	1.12	40	66	952	1.803	2.21					
		16	159	2592	1.595	1.60	41	62	924	1.745	1.86					
		17	122	2431	1.305	-1.30	42	48	896	1.393	-0.25					
		18	117	2288	1.330	-1.05	43	45	873	1.340	-0.57					
		19	115	2160	1.384	-0.46	44	46	852	1.404	-0.19					
		20	129	2044	1.641	1.85	45	47	831	1.471	0.22					
		21	109	1939	1.462	0.24	46	46	810	1.477	0.25					
		22	104	1846	1.465	0.27	47	40	789	1.318	-0.70					
		23	94	1758	1.390	-0.36	48	38	768	1.286	-0.89					
		24	85	1680	1.315	-0.96	49	48	747	1.671	1.42					
		25	92	1606	1.489	0.43	50	44	730	1.567	0.66					
		26	87	1540	1.469	0.27	51	31	715	1.127	-1.54					

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	293	17	0.10	181.59	55.4
5	292	9	0.01	2523.18	151.2

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
6	127	88	f n p g j r
4	23	22	g h d m
4	23	240	g h d m
5	45	218	g h d m x
10	141	82	j l b w d k q c m r
4	49	162	x g l d
4	49	230	x g l d
4	211	68	x g l d

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT d c w p x D 137
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 289 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	7	IC TESTS FOR SIGNIFICANCE					
b	5	MONO IC	1.3945	SIGMAGE	16.1 289	2232	1600
c	9	DIGRAPHIC TESTS					
d	14	DIGRAPH IC	2.207	SIGMAGE	9.4 287	134	61
e	3	CUT A IC	2.364	SIGMAGE	5.3 144	36	15
f	9	CUT B IC	1.931	SIGMAGE	3.6 143	29	15
g	13	TRIGRAPHIC TESTS					
h	14	TRIGRAPH IC	13.48	SIGMAGE	19.0 285	31	2.30
i	7	CUT A IC	0.00	SIGMAGE	-0.5 95	0	0.25
j	11	CUT B IC	12.00	SIGMAGE	5.6 95	3	0.25
k	12	CUT C IC	8.00	SIGMAGE	3.5 95	2	0.25
l	7	LOCAL ROUGHNESS OFFSETS 1 TO 33					
m	4	OFF	OBS	EXP	SIGMAGE	OFF	OBS
n	5	1	4	15	-3.0	12	14
o	9	2	6	15	-2.5	13	15
p	19	3	17	15	0.4	14	18
q	9	4	6	15	-2.5	15	10
r	17	5	23	15	2.0	16	15
s	13	6	15	15	-0.1	17	11
t	14	7	11	15	-1.1	18	13
u	8	8	12	15	-0.8	19	11
v	5	9	11	15	-1.1	20	9
w	9	10	16	15	0.3	21	22
x	44	11	16	15	0.3	22	14
y	8						
z	14						

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1100	20736	1.379	-0.46	27	78	1405	1.443	0.38
3	774	13776	1.461	1.52	28	71	1350	1.367	-0.20
4	547	10296	1.381	-0.28	29	74	1296	1.485	0.63
5	437	8208	1.384	-0.20	30	79	1252	1.641	1.72
6	371	6816	1.415	0.34	31	62	1207	1.336	-0.41
7	341	5822	1.523	1.92	32	68	1162	1.522	0.89
8	258	5077	1.321	-1.04	33	60	1124	1.388	-0.05
9	248	4497	1.434	0.51	34	68	1088	1.625	1.61
10	223	4032	1.438	0.56	35	59	1053	1.457	0.43
11	198	3654	1.409	0.17	36	51	1017	1.304	-0.55
12	179	3336	1.395	0.00	37	47	987	1.238	-0.94
13	169	3070	1.431	0.40	38	59	959	1.600	1.23
14	158	2840	1.446	0.56	39	55	931	1.536	0.85
15	145	2642	1.427	0.32	40	39	903	1.123	-1.63
16	136	2467	1.433	0.38	41	30	875	0.891	-3.02
17	138	2313	1.551	1.56	42	49	852	1.495	0.60
18	119	2177	1.421	0.23	43	49	832	1.531	0.82
19	144	2056	1.821	3.83	44	43	811	1.379	-0.10
20	94	1946	1.256	-1.25	45	48	790	1.580	1.11
21	122	1846	1.718	2.91	46	31	769	1.048	-2.08
22	87	1756	1.288	-0.86	47	35	748	1.217	-1.07
23	80	1675	1.242	-1.22	48	36	727	1.287	-0.54
24	75	1597	1.221	-1.39	49	43	710	1.575	0.90
25	80	1529	1.360	-0.28	50	36	695	1.347	-0.24
26	85	1464	1.510	0.92	51	42	680	1.606	1.06

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	283	18	0.08	206.15	60.7
5	281	14	0.01	4236.86	244.4

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
8	52	136	l w d x f a x
6	72	58	x g h t p r
10	72	209	x g h t p r x p a p
6	130	151	x g h t p r

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT a j p c 1 D 139
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 400 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	17	IC TESTS FOR SIGNIFICANCE									
c	12	MONO IC 0.9973 SIGMAGE	-0.1	400					3061	3069	
d	16	DIGRAPHIC TESTS									
e	19	DIGRAPH IC 1.107 SIGMAGE	1.2	399					130	117	
f	17	CUT A IC 1.155 SIGMAGE	0.8	200					34	29	
g	15	CUT B IC 0.926 SIGMAGE	-0.4	199					27	29	
h	20	TRIGRAPHIC TESTS									
i	19	TRIGRAPH IC 1.11 SIGMAGE	0.2	398					5	4.49	
j	16	CUT A IC 0.00 SIGMAGE	-0.7	133					0	0.50	
k	18	CUT B IC 4.00 SIGMAGE	2.1	133					2	0.50	
l	16	CUT C IC 0.00 SIGMAGE	-0.7	132					0	0.49	
m	17	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	18	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	18	1 15 15 0.0 12 12 15 -0.7 23 18 14 1.0									
p	12	2 9 15 -1.6 13 19 15 1.1 24 22 14 2.1									
q	12	3 9 15 -1.6 14 16 15 0.4 25 22 14 2.1									
r	8	4 19 15 1.0 15 13 15 -0.4 26 15 14 0.2									
s	13	5 15 15 0.0 16 15 15 0.1 27 15 14 0.2									
t	8	6 11 15 -1.0 17 17 15 0.7 28 16 14 0.5									
u	16	7 14 15 -0.2 18 13 15 -0.4 29 9 14 -1.4									
v	13	8 15 15 0.0 19 14 14 -0.1 30 13 14 -0.3									
w	10	9 12 15 -0.8 20 9 14 -1.5 31 15 14 0.3									
x	23	10 26 15 3.0 21 15 14 0.2 32 15 14 0.3									
y	10	11 18 15 0.9 22 10 14 -1.2 33 14 14 0.0									
z	19	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1521	39800	0.994	-0.12	27	106	2765	0.997	0.00
3	1001	26467	0.983	-0.46	28	100	2660	0.977	-0.20
4	748	19800	0.982	-0.42	29	103	2561	1.046	0.49
5	593	15800	0.976	-0.53	30	88	2470	0.926	-0.71
6	504	13134	0.998	0.02	31	100	2382	1.092	0.95
7	433	11229	1.003	0.13	32	91	2304	1.027	0.30
8	392	9800	1.040	0.86	33	83	2226	0.969	-0.25
9	316	8690	0.945	-0.99	34	89	2156	1.073	0.68
10	275	7800	0.917	-1.44	35	76	2090	0.945	-0.47
11	262	7074	0.963	-0.58	36	79	2024	1.015	0.16
12	252	6468	1.013	0.26	37	81	1965	1.072	0.68
13	243	5955	1.061	0.96	38	69	1910	0.939	-0.52
14	210	5516	0.990	-0.11	39	69	1855	0.967	-0.27
15	181	5135	0.916	-1.13	40	59	1800	0.852	-1.31
16	181	4800	0.980	-0.24	41	57	1755	0.844	-1.22
17	171	4508	0.986	-0.14	42	78	1710	1.186	1.51
18	156	4246	0.955	-0.55	43	74	1665	1.156	1.27
19	136	4011	0.882	-1.50	44	65	1620	1.043	0.37
20	123	3800	0.842	-1.86	45	54	1580	0.889	-0.86
21	141	3610	1.016	0.23	46	61	1544	1.027	0.24
22	113	3438	0.855	-1.70	47	61	1508	1.052	0.44
23	142	3281	1.125	1.41	48	56	1472	0.989	-0.06
24	136	3136	1.128	1.44	49	57	1436	1.032	0.28
25	108	3000	0.936	-0.67	50	44	1400	0.817	-1.44
26	115	2880	1.038	0.45	51	48	1372	0.910	-0.61

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	397	0	0.18	0.00	-0.4
5	396	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT e g q y i D 141
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 450 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	21										
b	9	IC TESTS FOR SIGNIFICANCE									
c	20	MONO IC	1.0709	SIGMAGE	4.5	450			41.61	3885	
d	16	DIGRAPHIC TESTS									
e	10	DIGRAPH IC	1.620	SIGMAGE	7.6	449			241	149	
f	5	CUT A IC	1.770	SIGMAGE	4.7	225			66	37	
g	24	CUT B IC	1.840	SIGMAGE	5.1	224			68	37	
h	22	TRIGRAPHIC TESTS									
i	27	TRIGRAPH IC	5.79	SIGMAGE	11.4	448			33	5.70	
j	18	CUT A IC	6.25	SIGMAGE	4.2	150			4	0.64	
k	24	CUT B IC	4.76	SIGMAGE	3.0	149			3	0.63	
l	23	CUT C IC	4.76	SIGMAGE	3.0	149			3	0.63	
m	23	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	27	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS
o	18	1	21	18	0.6	12	13	18	-1.2	23	12
p	17	2	17	18	-0.3	13	15	18	-0.7	24	15
q	14	3	23	18	1.1	14	10	18	-1.9	25	28
r	17	4	12	18	-1.5	15	24	18	1.5	26	19
s	12	5	22	18	0.9	16	15	18	-0.7	27	14
t	25	6	11	18	-1.7	17	19	18	0.3	28	21
u	14	7	14	18	-1.0	18	14	18	-0.9	29	21
v	19	8	13	18	-1.2	19	10	18	-1.9	30	32
w	14	9	16	18	-0.5	20	27	18	2.3	31	16
x	9	10	37	18	4.6	21	19	18	0.3	32	12
y	6	11	12	18	-1.4	22	7	18	-2.6	33	19
z	16	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									
		W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
		2	2072	50400	1.069	-0.09	27	154	3528	1.135	0.77
		3	1366	33525	1.059	-0.44	28	141	3392	1.081	0.12
		4	995	25088	1.031	-1.28	29	130	3270	1.034	-0.41
		5	1386	20025	1.800	20.41	30	233	3150	1.923	9.37
		6	664	16650	1.037	-0.88	31	118	3045	1.008	-0.69
		7	594	14240	1.085	0.34	32	119	2940	1.052	-0.21
		8	503	12432	1.052	-0.42	33	106	2847	0.968	-1.13
		9	427	11025	1.007	-1.34	34	100	2756	0.943	-1.41
		10	759	9900	1.993	18.44	35	189	2670	1.840	7.69
		11	337	8980	0.976	-1.81	36	87	2592	0.873	-1.98
		12	297	8214	0.940	-2.36	37	98	2514	1.014	-0.57
		13	311	7565	1.069	-0.03	38	105	2442	1.118	0.47
		14	298	7008	1.106	0.60	39	102	2376	1.116	0.45
		15	444	6525	1.769	11.17	40	165	2310	1.857	7.86
		16	258	6104	1.099	0.45	41	88	2245	1.019	-0.52
		17	225	5733	1.020	-0.77	42	95	2190	1.128	0.51
		18	195	5400	0.939	-1.98	43	91	2135	1.108	0.33
		19	204	5106	1.039	-0.45	44	65	2080	0.813	-2.32
		20	342	4840	1.837	10.72	45	134	2025	1.720	5.84
		21	202	4599	1.142	0.99	46	73	1980	0.959	-1.01
		22	154	4380	0.914	-2.04	47	72	1935	0.967	-0.94
		23	144	4180	0.896	-2.28	48	79	1890	1.087	0.14
		24	153	3996	0.995	-0.99	49	63	1845	0.888	-1.65
		25	258	3825	1.754	8.20	50	130	1800	1.878	7.26
		26	145	3672	1.027	-0.53	51	57	1764	0.840	-1.85

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	447	7	0.21	32.09	14.5
5	446	4	0.01	478.51	43.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

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LENGTH	POSITION	OFFSET	REPEATED TEXT
6	288	90	c t g k a z
6	8	130	c t j h r l
4	185	250	j i t n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 4 5 2 6 4 D 142
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 230 DITS 0

						HITS OBSERVED	HITS EXPECTED
0	20						
1	19	IC TESTS FOR SIGNIFICANCE		TOTAL			
2	58	MONO IC 1.3036	SIGMAGE	16.4 230		3433	2633
3	14	DIGRAPHIC TESTS					
4	27	DIGRAPH IC 2.360	SIGMAGE	22.1 229		616	261
5	26	CUT A IC 2.349	SIGMAGE	11.0 115		154	66
6	30	CUT B IC 2.438	SIGMAGE	11.7 114		157	64
7	14	TRIGRAPHIC TESTS					
8	7	TRIGRAPH IC 6.30	SIGMAGE	27.0 228		163	25.88
9	15	CUT A IC 8.07	SIGMAGE	12.0 76		23	2.85
		CUT B IC 5.61	SIGMAGE	7.8 76		16	2.85
		CUT C IC 6.67	SIGMAGE	9.6 76		19	2.85

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	4	30	-5.1	12	26	28	-0.5	23	31	27	0.8
2	34	30	0.9	13	31	28	0.6	24	21	27	-1.2
3	17	30	-2.5	14	27	28	-0.2	25	32	27	1.1
4	37	29	1.5	15	35	28	1.4	26	22	27	-0.9
5	17	29	-2.4	16	30	28	0.4	27	26	26	-0.1
6	31	29	0.4	17	24	28	-0.8	28	26	26	-0.1
7	22	29	-1.4	18	27	28	-0.1	29	28	26	0.4
8	26	29	-0.6	19	32	27	0.9	30	24	26	-0.4
9	28	29	-0.1	20	32	27	1.0	31	28	26	0.4
10	22	29	-1.3	21	28	27	0.2	32	23	26	-0.6
11	33	28	0.9	22	31	27	0.8	33	25	26	-0.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1760	13110	1.342	1.44	27	119	868	1.371	0.67
3	1163	8702	1.336	0.99	28	128	832	1.538	2.34
4	897	6498	1.380	2.05	29	89	798	1.115	-1.70
5	663	5175	1.281	-0.55	30	113	770	1.468	1.48
6	604	4294	1.407	2.27	31	98	742	1.321	0.15
7	485	3664	1.324	0.40	32	89	714	1.246	-0.52
8	432	3192	1.353	0.93	33	85	687	1.237	-0.60
9	391	2825	1.384	1.44	34	90	666	1.351	0.42
10	331	2530	1.308	0.07	35	78	645	1.209	-0.86
11	314	2290	1.371	1.07	36	89	624	1.426	0.98
12	293	2090	1.402	1.47	37	68	603	1.128	-1.41
13	257	1921	1.338	0.51	38	93	582	1.598	2.35
14	246	1776	1.385	1.13	39	79	565	1.398	0.75
15	247	1650	1.497	2.70	40	81	550	1.473	1.35
16	213	1540	1.383	1.03	41	66	535	1.234	-0.56
17	186	1443	1.289	-0.20	42	88	520	1.692	3.10
18	192	1356	1.416	1.34	43	61	505	1.208	-0.77
19	185	1278	1.448	1.73	44	66	490	1.347	0.30
20	165	1210	1.364	0.72	45	79	475	1.663	2.51
21	164	1145	1.432	1.41	46	56	460	1.217	-0.61
22	145	1090	1.330	0.29	47	63	450	1.400	0.67
23	131	1035	1.266	-0.42	48	61	440	1.386	0.57
24	123	990	1.242	-0.68	49	51	430	1.186	-0.83
25	121	945	1.280	-0.24	50	49	420	1.167	-0.96
26	113	904	1.250	-0.54	51	66	410	1.610	2.14

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	227	44	2.56	17.15	26.0
5	226	14	0.26	55.06	27.3

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT				
6	168	22	0	2	3	4	5	6
4	168	47	0	2	3	4		
4	190	25	0	2	3	4		
4	47	112	0	6	5	2		
4	75	146	1	2	5	4		
5	50	74	2	1	6	7	2	
4	50	136	2	1	6	7		
5	123	62	2	2	1	6	7	
4	155	14	2	3	4	5		
4	155	36	2	3	4	5		
5	3	91	2	6	4	5	6	
4	162	49	2	9	2	1		
4	16	23	2	9	2	7		
6	130	12	2	9	4	5	2	3
4	54	148	2	9	4	7		
5	89	135	4	3	6	5	0	
4	24	108	4	5	2	3		
7	24	120	4	5	2	3	8	2
7	60	117	4	5	6	5	2	9
4	139	22	5	2	9	2		0
4	105	89	5	6	1	2		0
4	74	121	6	1	2	5		
4	91	117	6	5	0	2		
4	62	98	6	5	2	9		
4	160	19	6	5	2	9		
4	52	46	6	7	2	9		
4	42	177	7	2	1	2		
4	38	61	7	2	9	2		
4	9	190	8	2	0	2		
4	119	29	8	2	0	4		

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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244

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 9 0 7 2 3 D 143
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 440 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
0	50						
1	50	IC TESTS FOR SIGNIFICANCE					
2	41	MONO IC	0.9936	SIGMAGE	-0.6	440	9596
3	35	DIGRAPHIC TESTS					
4	40	DIGRAPH IC	0.941	SIGMAGE	-1.8	439	905
5	47	CUT A IC	1.009	SIGMAGE	0.1	220	243
6	50	CUT B IC	0.980	SIGMAGE	-0.3	219	234
7	38	TRIGRAPHIC TESTS					
8	47	TRIGRAPH IC	1.34	SIGMAGE	3.3	438	128
9	42	CUT A IC	1.70	SIGMAGE	2.3	146	18
		CUT B IC	1.51	SIGMAGE	1.7	146	16
		CUT C IC	1.98	SIGMAGE	3.2	146	21

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	40	43	-0.6	12	52	42	1.6	23	40	41	-0.2
2	46	43	0.4	13	46	42	0.6	24	42	41	0.1
3	38	43	-0.8	14	40	42	-0.4	25	40	41	-0.2
4	50	43	1.1	15	32	42	-1.6	26	46	41	0.8
5	43	43	0.0	16	52	42	1.6	27	38	41	-0.5
6	41	43	-0.3	17	51	42	1.5	28	51	41	1.7
7	40	43	-0.5	18	47	42	0.9	29	43	41	0.4
8	35	43	-1.3	19	34	42	-1.3	30	64	41	3.9
9	46	43	0.5	20	41	42	-0.1	31	39	40	-0.2
10	42	43	-0.1	21	33	41	-1.4	32	37	40	-0.6
11	39	42	-0.6	22	45	41	0.6	33	44	40	0.6

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	4860	48180	1.009	1.10	27	309	3368	0.917	-1.46
3	3182	32047	0.993	-0.06	28	342	3240	1.056	1.18
4	2478	23980	1.033	2.03	29	345	3120	1.106	2.13
5	2061	19140	1.077	3.82	30	511	3010	1.698	12.67
6	1748	15914	1.098	4.37	31	267	2905	0.919	-1.35
7	1320	13609	0.970	-0.94	32	267	2808	0.951	-0.77
8	1224	11880	1.030	1.30	33	256	2717	0.942	-0.88
9	1060	10536	1.006	0.41	34	260	2628	0.989	-0.09
10	1136	9460	1.201	6.62	35	257	2550	1.008	0.24
11	821	8580	0.957	-1.15	36	264	2472	1.068	1.26
12	888	7848	1.131	4.11	37	243	2398	1.013	0.30
13	727	7227	1.006	0.34	38	219	2332	0.939	-0.88
14	670	6696	1.001	0.19	39	238	2266	1.050	0.90
15	789	6235	1.265	7.05	40	272	2200	1.236	3.87
16	589	5832	1.010	0.40	41	201	2145	0.937	-0.86
17	558	5475	1.019	0.63	42	212	2090	1.014	0.30
18	565	5160	1.095	2.42	43	209	2035	1.027	0.50
19	482	4876	0.989	-0.12	44	183	1980	0.924	-1.05
20	563	4620	1.219	5.18	45	256	1935	1.323	4.94
21	407	4390	0.927	-1.47	46	191	1890	1.011	0.26
22	381	4180	0.911	-1.83	47	196	1845	1.062	0.95
23	402	3990	1.008	0.29	48	188	1800	1.044	0.70
24	422	3816	1.106	2.35	49	149	1756	0.849	-2.03
25	356	3655	0.974	-0.40	50	178	1720	1.035	0.57
26	334	3504	0.953	-0.82	51	151	1684	0.897	-1.36

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	437	22	9.52	2.31	4.1
5	436	3	0.94	3.16	2.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT						
4	121	151	0	5	2	0			
4	2	303	0	7	2	3			
4	103	180	1	4	7	1			
4	66	133	2	5	2	0			
4	66	313	2	5	2	0			
5	199	180	2	5	2	0	8		
4	235	194	2	7	7	4			
4	109	246	3	3	5	8			
4	63	233	3	5	1	2			
5	5	394	3	7	8	1	6		
5	48	277	4	3	6	5	1		
4	48	319	4	3	6	5			
4	325	42	4	3	6	5			
4	30	402	4	6	6	2			
4	12	250	4	8	4	9			
4	273	17	5	2	0	1			
4	344	40	5	8	0	5			
4	188	46	6	2	7	7			
4	70	120	7	7	1	0			

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT f j g j 1 D 146a
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 300 DITS 0

a	15									HITS		HITS			
b	14	IC TESTS FOR SIGNIFICANCE								TOTAL		OBSERVED		EXPECTED	
c	10	MONO IC		1.0516	SIGMAGE	2.1	300			1814		1725			
d	4	DIGRAPHIC TESTS													
e	11	DIGRAPH IC		1.017	SIGMAGE	0.1	299			67		66			
f	5	CUT A IC		0.907	SIGMAGE	-0.4	150			15		17			
g	8	CUT B IC		0.981	SIGMAGE	-0.1	149			16		16			
h	12	TRIGRAPHIC TESTS													
i	10	TRIGRAPH IC		1.19	SIGMAGE	0.3	298			3		2.52			
j	10	CUT A IC		3.57	SIGMAGE	1.4	100			1		0.28			
k	9	CUT B IC		0.00	SIGMAGE	-0.5	99			0		0.28			
l	17	CUT C IC		3.57	SIGMAGE	1.4	99			1		0.28			
m	18	LOCAL ROUGHNESS OFFSETS 1 TO 33													
n	6	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE		
o	9	1	9	12	-0.9	12	12	12	0.1	23	10	11	-0.3		
p	8	2	20	12	2.4	13	9	11	-0.7	24	10	11	-0.3		
q	8	3	14	12	0.6	14	10	11	-0.4	25	8	11	-0.9		
r	8	4	9	12	-0.8	15	22	11	3.2	26	9	11	-0.6		
s	12	5	13	12	0.4	16	13	11	0.5	27	11	11	0.0		
t	14	6	8	12	-1.1	17	14	11	0.8	28	11	11	0.0		
u	14	7	9	12	-0.8	18	15	11	1.1	29	4	11	-2.1		
v	20	8	13	12	0.4	19	10	11	-0.4	30	11	11	0.1		
w	20	9	9	12	-0.8	20	13	11	0.5	31	12	11	0.4		
x	11	10	15	12	1.0	21	14	11	0.9	32	10	11	-0.2		
y	16	11	4	12	-2.3	22	13	11	0.6	33	8	11	-0.8		
z	11	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W													

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	0	0.09	0.00	-0.3
5	296	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 1 g n g k D 146b
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 300 DITS 0

									HITS OBSERVED	HITS EXPECTED
a	11									
b	12	IC TESTS FOR SIGNIFICANCE								
c	5	MONO IC 1.0661 SIGMAGE	2.8	300				1839	1725	
d	5	DIGRAPHIC TESTS								
e	9	DIGRAPH IC 1.062 SIGMAGE	0.5	299				70	66	
f	6	CUT A IC 1.089 SIGMAGE	0.4	150				18	17	
g	11	CUT B IC 1.165 SIGMAGE	0.7	149				19	16	
h	14	TRIGRAPHIC TESTS								
i	12	TRIGRAPH IC 0.40 SIGMAGE	-1.0	298				1	2.52	
j	14	CUT A IC 0.00 SIGMAGE	-0.5	100				0	0.28	
k	9	CUT B IC 0.00 SIGMAGE	-0.5	99				0	0.28	
l	13	CUT C IC 0.00 SIGMAGE	-0.5	99				0	0.28	
m	15	LOCAL ROUGHNESS OFFSETS 1 TO 33								
n	16	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE								
o	11	1 9 12 -1.0 12 9 12 -0.8 23 10 11 -0.4								
p	8	2 17 12 1.4 13 8 12 -1.1 24 11 11 -0.1								
q	6	3 13 12 0.2 14 11 12 -0.2 25 14 11 0.8								
r	15	4 12 12 0.0 15 12 12 0.1 26 13 11 0.5								
s	12	5 9 12 -0.9 16 16 12 1.3 27 10 11 -0.4								
t	16	6 12 12 0.0 17 13 12 0.4 28 11 11 0.0								
u	18	7 4 12 -2.4 18 11 12 -0.2 29 12 11 0.3								
v	11	8 11 12 -0.3 19 10 12 -0.5 30 8 11 -0.9								
w	25	9 12 12 0.0 20 11 11 -0.1 31 6 11 -1.5								
x	12	10 9 12 -0.9 21 8 11 -1.0 32 14 11 0.9								
y	7	11 12 12 0.0 22 10 11 -0.4 33 15 11 1.3								
z	7	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	955	22350	1.111	1.35	27	50	1518	0.856	-1.68
3	621	14850	1.087	0.50	28	69	1460	1.229	1.30
4	484	11100	1.134	1.43	29	61	1405	1.129	0.50
5	369	8850	1.084	0.34	30	53	1350	1.021	-0.32
6	324	7350	1.146	1.36	31	45	1305	0.897	-1.18
7	260	6279	1.077	0.18	32	61	1260	1.259	1.35
8	248	5476	1.178	1.68	33	57	1215	1.220	1.08
9	190	4851	1.018	-0.67	34	56	1176	1.238	1.20
10	184	4350	1.100	0.44	35	57	1140	1.300	1.64
11	158	3942	1.042	-0.31	36	48	1104	1.130	0.45
12	174	3600	1.257	2.29	37	48	1068	1.169	0.72
13	133	3312	1.044	-0.26	38	40	1036	1.004	-0.37
14	140	3066	1.187	1.33	39	46	1008	1.187	0.73
15	111	2850	1.013	-0.58	40	41	980	1.088	0.13
16	132	2664	1.288	2.22	41	50	952	1.366	1.80
17	105	2499	1.092	0.26	42	48	924	1.351	1.71
18	96	2352	1.061	-0.05	43	50	897	1.449	2.30
19	85	2220	0.995	-0.64	44	33	876	0.979	-0.52
20	94	2100	1.164	0.88	45	2	855	0.791	-1.65
21	93	1995	1.212	1.31	46	37	838	1.153	0.52
22	83	1898	1.137	0.64	47	32	813	1.023	-0.26
23	76	1807	1.094	0.25	48	45	792	1.477	2.47
24	92	1728	1.384	2.54	49	37	771	1.248	1.09
25	69	1650	1.087	0.17	50	31	750	1.075	0.05
26	66	1584	1.083	0.14	51	24	735	0.849	-1.09

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	0	0.09	0.00	-0.3
5	296	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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250

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b d a u b D 150
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 385 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	21												
b	27	IC TESTS FOR SIGNIFICANCE											
c	15	MONO IC	1.2800	SIGMA	15.2	385			3639	2843			
d	24	DIGRAPHIC TESTS											
e	3	DIGRAPH IC	1.728	SIGMA	7.6	384			188	109			
f	20	CUT A IC	1.733	SIGMA	3.8	192			47	27			
g	12	CUT B IC	1.475	SIGMA	2.5	192			40	27			
h	5	TRIGRAPHIC TESTS											
i	9	TRIGRAPH IC	2.40	SIGMA	2.9	383			10	4.16			
j	0	CUT A IC	4.35	SIGMA	2.3	128			2	0.46			
k	24	CUT B IC	2.17	SIGMA	0.8	128			1	0.46			
l	5	CUT C IC	6.52	SIGMA	3.7	127			3	0.46			
m	15	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	29	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA
o	12	1	6	19	-3.0	12	13	18	-1.3	23	14	18	-0.9
p	14	2	22	19	0.8	13	14	18	-1.0	24	22	18	1.1
q	23	3	15	19	-0.9	14	23	18	1.2	25	21	18	0.8
r	29	4	25	19	1.5	15	21	18	0.7	26	24	18	1.6
s	3	5	15	19	-0.9	16	14	18	-1.0	27	15	18	-0.6
t	2	6	28	19	2.2	17	16	18	-0.5	28	13	17	-1.1
u	19	7	23	19	1.1	18	15	18	-0.7	29	18	17	0.1
v	20	8	10	18	-2.0	19	16	18	-0.5	30	13	17	-1.1
w	9	9	22	18	0.9	20	14	18	-0.9	31	15	17	-0.6
x	12	10	17	18	-0.3	21	15	18	-0.7	32	20	17	0.7
y	24	11	13	18	-1.3	22	22	18	1.0	33	12	17	-1.3
z	9	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	1807	36864	1.274	-0.23	27	124	2555	1.262	-0.18
3	1279	24512	1.357	2.39	28	123	2457	1.302	0.22
4	873	18336	1.238	-1.13	29	110	2366	1.209	-0.71
5	692	14630	1.230	-1.20	30	104	2280	1.186	-0.94
6	626	12160	1.338	1.28	31	116	2202	1.370	0.81
7	528	10395	1.321	0.82	32	110	2124	1.347	0.60
8	415	9072	1.189	-1.73	33	89	2057	1.125	-1.40
9	409	8043	1.322	0.76	34	93	1991	1.214	-0.59
10	332	7220	1.196	-1.43	35	98	1925	1.324	0.40
11	290	6545	1.152	-2.05	36	94	1870	1.307	0.24
12	290	5984	1.260	-0.30	37	76	1815	1.089	-1.72
13	283	5510	1.335	0.83	38	89	1760	1.315	0.28
14	256	5103	1.304	0.34	39	105	1710	1.596	2.53
15	229	4750	1.253	-0.38	40	85	1665	1.327	0.38
16	207	4440	1.212	-0.88	41	83	1620	1.332	0.42
17	208	4169	1.297	0.22	42	85	1575	1.403	0.98
18	207	3927	1.371	1.18	43	64	1532	1.086	-1.55
19	188	3710	1.318	0.46	44	6	1496	1.147	-1.06
20	169	3515	1.250	-0.36	45	72	1460	1.282	0.02
21	178	3339	1.386	1.27	46	84	1424	1.534	2.03
22	142	3179	1.161	-1.31	47	88	1388	1.648	2.94
23	161	3032	1.381	1.11	48	58	1352	1.115	-1.16
24	138	2896	1.239	-0.45	49	78	1323	1.533	1.77
25	140	2775	1.312	0.35	50	58	1295	1.164	-0.81
26	150	2660	1.466	1.86	51	62	1267	1.272	-0.06

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	382	1	0.15	6.28	2.1
5	381	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH - 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	97	109	b p b n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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252

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT j n d y y D 151a
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 200 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	7										
b	6	IC TESTS FOR SIGNIFICANCE									
c	8										
d	8										
e	8										
f	12										
g	6										
h	10										
i	4										
j	9										
k	6										
l	9										
m	8										
n	5										
o	10										
p	5										
q	9										
r	11										
s	5										
t	5										
u	14										
v	4										
w	6										
x	4										
y	14										
z	7										

LOCAL ROUGHNESS OFFSETS 1 TO 33

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC	SIGMA
2	370	9900	0.972	-0.76	27	28	644	1.130	0.60
3	271	6567	1.073	1.01	28	12	616	0.506	-2.52
4	168	4900	0.891	-1.67	29	26	591	1.144	0.67
5	188	3900	1.253	3.16	30	40	570	1.825	4.08
6	118	3234	0.949	-0.67	31	17	549	0.805	-1.03
7	100	2758	0.943	-0.74	32	23	528	1.133	0.62
8	83	2400	0.899	-1.11	33	16	507	0.821	-0.76
9	92	2123	1.127	1.05	34	13	490	0.690	-1.28
10	85	1900	1.163	1.38	35	18	475	0.985	-0.10
11	59	1719	0.892	-0.94	36	15	460	0.848	-0.65
12	58	1568	0.962	-0.38	37	16	445	0.935	-0.30
13	60	1440	1.083	0.58	38	16	430	0.967	-0.17
14	47	1330	0.919	-0.64	39	21	415	1.316	1.22
15	92	1235	1.937	6.49	40	20	400	1.300	1.16
16	45	1152	1.016	0.04	41	19	390	1.267	1.03
17	36	1078	0.868	-0.99	42	13	380	0.889	-0.48
18	38	1012	0.976	-0.20	43	18	370	1.265	1.02
19	33	955	0.898	-0.67	44	11	360	0.794	-0.86
20	44	900	1.271	1.57	45	29	350	2.154	4.58
21	37	855	1.125	0.69	46	13	340	0.994	-0.06
22	23	810	0.738	-1.63	47	19	330	1.497	1.95
23	24	772	0.808	-1.21	48	12	320	0.975	-0.14
24	24	736	0.848	-0.81	49	19	310	1.594	1.75
25	34	700	1.263	1.27	50	8	300	0.693	-0.95
26	30	672	1.161	0.76	51	9	294	0.796	-0.64

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMA
4	197	0	0.05	0.00	-0.2
5	196	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE
ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR
RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT f o k q z D 151b
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 200 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	3										
b	7	IC TESTS FOR SIGNIFICANCE									
c	9	MONO IC	1.0910	SIGMAGE	2.5	200			835	765	
d	6	DIGRAPHIC TESTS									
e	2	DIGRAPH IC	1.235	SIGMAGE	1.3	199			36	29	
f	12	CUT A IC	1.639	SIGMAGE	1.7	100			12	7	
g	10	CUT B IC	1.254	SIGMAGE	0.7	99			9	7	
h	7	TRIGRAPHIC TESTS									
i	4	TRIGRAPH IC	0.90	SIGMAGE	-0.1	198			1	1.11	
j	5	CUT A IC	0.00	SIGMAGE	-0.4	66			0	0.12	
k	17	CUT B IC	8.33	SIGMAGE	2.6	66			1	0.12	
l	5	CUT C IC	0.00	SIGMAGE	-0.4	66			0	0.12	
m	12	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	7	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	8	1 6 8 -0.8 12 4 8 -1.4 23 7 7 -0.2									
p	8	2 6 8 -0.8 13 10 8 0.8 24 7 7 -0.1									
q	13	3 8 8 -0.1 14 9 8 0.4 25 9 7 0.6									
r	5	4 10 8 0.6 15 8 8 0.1 26 7 7 -0.1									
s	6	5 11 8 1.0 16 10 8 0.8 27 3 7 -1.6									
t	3	6 6 8 -0.8 17 7 8 -0.3 28 2 7 -2.0									
u	12	7 9 8 0.3 18 4 8 -1.3 29 8 7 0.3									
v	7	8 6 8 -0.7 19 5 8 -1.0 30 11 7 1.5									
w	4	9 6 8 -0.7 20 15 8 2.8 31 6 7 -0.4									
x	7	10 15 8 2.5 21 13 8 2.0 32 5 7 -0.8									
y	12	11 14 8 2.2 22 5 7 -0.9 33 6 7 -0.4									
z	9	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	408	9900	1.072	-0.38	27	27	644	1.090	-0.01
3	283	6567	1.120	0.46	28	15	616	0.633	-2.29
4	209	4900	1.109	0.25	29	23	591	1.012	-0.40
5	205	3900	1.367	3.59	30	39	570	1.779	3.44
6	132	3234	1.061	-0.33	31	18	549	0.852	-1.20
7	119	2758	1.122	0.34	32	21	528	1.034	-0.29
8	98	2400	1.062	-0.29	33	23	507	1.179	0.35
9	82	2123	1.004	-0.78	34	16	490	0.849	-0.97
10	131	1900	1.793	6.32	35	17	475	0.931	-0.64
11	78	1719	1.180	0.71	36	21	460	1.187	0.38
12	68	1568	1.128	0.30	37	14	445	0.818	-1.09
13	71	1440	1.282	1.53	38	13	430	0.786	-1.22
14	49	1330	0.958	-0.93	39	24	415	1.504	1.65
15	65	1235	1.368	1.94	40	28	400	1.820	2.92
16	49	1152	1.106	0.11	41	12	390	0.800	-1.16
17	38	1078	0.917	-1.22	42	10	380	0.684	-1.63
18	38	1012	0.976	-0.69	43	16	370	1.124	0.13
19	30	955	0.817	-1.64	44	19	360	1.372	1.12
20	69	900	1.993	5.41	45	19	350	1.411	1.28
21	31	855	0.943	-0.89	46	12	340	0.918	-0.69
22	33	810	1.059	-0.19	47	13	330	1.024	-0.27
23	33	772	1.111	0.12	48	11	320	0.894	-0.79
24	29	736	1.024	-0.34	49	18	310	1.510	1.26
25	37	700	1.374	1.42	50	18	300	1.560	1.41
26	31	672	1.199	0.54	51	11	294	0.973	-0.35

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	197	0	0.05	0.00	-0.2
5	196	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b s z x g D 152
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 400 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	11										
b	14	IC TESTS FOR SIGNIFICANCE									
c	14	MONO IC	0.9748	SIGMAGE	-1.4	400			2992	3069	
d	17	DIGRAPHIC TESTS									
e	17	DIGRAPH IC	1.064	SIGMAGE	0.7	399			125	117	
f	11	CUT A IC	1.155	SIGMAGE	0.8	200			34	29	
g	13	CUT B IC	1.098	SIGMAGE	0.5	199			32	29	
h	14	TRIGRAPHIC TESTS									
i	17	TRIGRAPH IC	2.45	SIGMAGE	3.1	398			11	4.49	
j	17	CUT A IC	2.00	SIGMAGE	0.7	133			1	0.50	
k	11	CUT B IC	0.00	SIGMAGE	-0.7	133			0	0.50	
l	21	CUT C IC	0.00	SIGMAGE	-0.7	132			0	0.49	
m	12	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	15	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	11	1 17 15 0.6 12 14 14 -0.1 23 19 14 1.4									
p	18	2 5 15 -2.6 13 11 14 -0.9 24 17 14 0.8									
q	21	3 11 15 -1.0 14 22 14 2.1 25 11 14 -0.8									
r	18	4 16 15 0.4 15 13 14 -0.3 26 22 14 2.2									
s	19	5 16 15 0.4 16 13 14 -0.3 27 17 14 0.9									
t	14	6 14 15 -0.2 17 11 14 -0.9 28 15 14 0.3									
u	13	7 9 15 -1.5 18 13 14 -0.3 29 8 14 -1.6									
v	17	8 16 15 0.4 19 23 14 2.4 30 26 14 3.4									
w	18	9 12 14 -0.7 20 12 14 -0.6 31 19 14 1.5									
x	13	10 16 14 0.4 21 12 14 -0.6 32 13 14 -0.2									
y	16	11 11 14 -0.9 22 14 14 0.0 33 13 14 -0.2									
z	18	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1449	39800	0.947	-1.12	27	98	2765	0.922	-0.58
3	999	26467	0.981	0.20	28	96	2660	0.938	-0.37
4	706	19800	0.927	-1.34	29	94	2561	0.954	-0.21
5	587	15800	0.966	-0.23	30	89	2470	0.937	-0.38
6	477	13134	0.944	-0.71	31	90	2382	0.982	0.07
7	423	11229	0.979	0.08	32	88	2304	0.993	0.18
8	337	9800	0.894	-1.62	33	81	2226	0.946	-0.26
9	338	8690	1.011	0.68	34	70	2156	0.844	-1.18
10	277	7800	0.923	-0.94	35	73	2090	0.908	-0.60
11	243	7074	0.893	-1.39	36	75	2024	0.963	-0.11
12	227	6468	0.912	-1.01	37	74	1965	0.979	0.04
13	210	5955	0.917	-0.87	38	76	1910	1.035	0.54
14	216	5516	1.018	0.65	39	61	1855	0.855	-1.08
15	192	5135	0.972	-0.04	40	61	1800	0.881	-0.85
16	163	4800	0.883	-1.29	41	75	1755	1.111	1.09
17	141	4508	0.813	-2.11	42	70	1710	1.064	0.71
18	152	4246	0.931	-0.57	43	72	1665	1.124	1.19
19	174	4011	1.128	1.99	44	43	1620	0.690	-2.28
20	125	3800	0.855	-1.44	45	58	1580	0.954	-0.17
21	153	3610	1.102	1.52	46	62	1544	1.044	0.55
22	104	3438	0.787	-2.26	47	54	1508	0.931	-0.35
23	132	3281	1.046	0.78	48	53	1472	0.936	-0.31
24	105	3136	0.871	-1.14	49	41	1436	0.742	-1.86
25	108	3000	0.936	-0.43	50	54	1400	1.003	0.22
26	105	2880	0.948	-0.30	51	44	1372	0.834	-0.99

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	397	3	0.18	17.44	6.8
5	396	2	0.01	303.84	24.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
6	73	311	i e r j t d

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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TOTAL 242 DITS 0

	IC TESTS FOR SIGNIFICANCE				TOTAL		HITS OBSERVED		HITS EXPECTED	
11	6	IC	MONO	1.0467	SIGMA	1.6	242	1174	1121	
17	7	DIGRAPHIC TESTS								
15	15	DIGRAPH	IC	1.566	SIGMA	3.7	241	67	43	
9	9	CUT A	IC	1.676	SIGMA	2.2	121	18	11	
9	9	CUT B	IC	1.420	SIGMA	1.4	120	15	11	
14	14	TRIGRAPHIC TESTS								
5	5	TRIGRAPH	IC	5.52	SIGMA	5.8	240	9	1.63	
8	8	CUT A	IC	0.00	SIGMA	-0.4	80	0	0.18	
14	14	CUT B	IC	5.56	SIGMA	1.9	80	1	0.18	
4	4	CUT C	IC	0.00	SIGMA	-0.4	80	0	0.18	
7	7	LOCAL ROUGHNESS OFFSETS 1 TO 33								
11	11	OFF	OBS	EXP	SIGMA	OFF	OBS	EXP	SIGMA	OFF
12	12	1	9	10	-0.2	12	2	9	-2.4	23
10	10	2	12	10	0.8	13	7	9	-0.7	24
11	11	3	5	10	-1.5	14	7	9	-0.7	25
3	3	4	8	10	-0.5	15	5	9	-1.4	26
13	13	5	9	9	-0.2	16	13	9	1.3	27
11	11	6	13	9	1.2	17	4	9	-1.7	28
9	9	7	6	9	-1.1	18	8	9	-0.3	29
3	3	8	11	9	0.5	19	12	9	1.1	30
10	10	9	9	9	-0.1	20	8	9	-0.3	31
9	9	10	6	9	-1.1	21	7	9	-0.6	32
9	9	11	8	9	-0.4	22	8	9	-0.3	33
5	5	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W								
		W	HITS	COMPS	AVG IC	SIGMA	W	HITS	COMPS	AVG IC
		2	599	14520	1.073	0.62	27	41	964	1.106
		3	377	9640	1.017	-0.60	28	35	928	0.981
		4	296	7200	1.069	0.37	29	35	892	1.020
		5	204	5736	0.925	-1.83	30	25	856	0.759
		6	178	4760	0.972	-1.05	31	34	826	1.070
		7	160	4063	1.024	-0.30	32	45	798	1.466
		8	170	3540	1.249	2.42	33	33	770	1.114
		9	119	3133	0.988	-0.65	34	31	742	1.086
		10	92	2808	0.852	-2.15	35	20	717	0.725
		11	100	2541	1.023	-0.24	36	29	696	1.083
		12	83	2320	0.930	-1.17	37	32	675	1.233
		13	78	2133	0.951	-0.86	38	28	654	1.113
		14	76	1972	1.002	-0.41	39	28	633	1.150
		15	59	1832	0.837	-1.89	40	28	612	1.190
		16	86	1710	1.308	2.09	41	23	595	1.005
		17	63	1603	1.022	-0.20	42	21	580	0.941
		18	61	1508	1.052	0.04	43	25	565	1.150
		19	69	1422	1.262	1.72	44	25	550	1.182
		20	49	1344	0.948	-0.69	45	15	535	0.729

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	119	118	k p e o l

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT c w i e l D 158
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 300 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	4										
b	5	IC TESTS FOR SIGNIFICANCE									
c	9	MONO IC 1.2841	SIGMAGE	12.0	300				2215	1725	
d	14	DIGRAPHIC TESTS									
e	6	DIGRAPH IC 3.520	SIGMAGE	20.5	299				232	66	
f	22	CUT A IC 3.327	SIGMAGE	9.5	150				55	17	
g	6	CUT B IC 3.372	SIGMAGE	9.6	149				55	16	
h	4	TRIGRAPHIC TESTS									
i	29	TRIGRAPH IC 12.70	SIGMAGE	18.6	298				32	2.52	
j	7	CUT A IC 17.86	SIGMAGE	9.0	100				5	0.28	
k	11	CUT B IC 3.57	SIGMAGE	1.4	99				1	0.28	
l	21	CUT C IC 7.14	SIGMAGE	3.2	99				2	0.28	
m	6	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	13	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	14	1 2 15 -3.4 12 18 14 1.1 23 11 14 -0.7									
p	12	2 6 15 -2.3 13 15 14 0.3 24 10 14 -1.0									
q	15	3 13 15 -0.4 14 17 14 0.8 25 14 13 0.1									
r	5	4 9 15 -1.5 15 11 14 -0.8 26 23 13 2.7									
s	3	5 13 14 -0.4 16 16 14 0.6 27 7 13 -1.8									
t	15	6 14 14 -0.1 17 10 14 -1.1 28 10 13 -0.9									
u	11	7 16 14 0.4 18 8 14 -1.6 29 7 13 -1.8									
v	11	8 14 14 -0.1 19 18 14 1.2 30 17 13 1.1									
w	19	9 8 14 -1.7 20 12 14 -0.5 31 16 13 0.8									
x	8	10 12 14 -0.6 21 9 14 -1.3 32 12 13 -0.3									
y	4	11 9 14 -1.4 22 18 14 1.2 33 16 13 0.8									
z	26	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1081	22350	1.258	-0.78	27	65	1518	1.113	-1.37
3	708	14850	1.240	-1.06	28	68	1460	1.211	-0.58
4	529	11100	1.239	-0.95	29	72	1405	1.332	0.38
5	431	8850	1.266	-0.34	30	58	1350	1.117	-1.17
6	344	7350	1.217	-1.14	31	67	1305	1.335	0.36
7	305	6279	1.263	-0.34	32	50	1260	1.032	-1.76
8	260	5476	1.234	-0.75	33	58	1215	1.241	-0.30
9	231	4851	1.238	-0.64	34	54	1176	1.194	-0.63
10	202	4350	1.207	-1.00	35	55	1140	1.254	-0.21
11	188	3942	1.240	-0.57	36	65	1104	1.531	1.73
12	182	3600	1.314	0.36	37	60	1068	1.461	1.24
13	193	3312	1.515	2.77	38	55	1036	1.380	0.58
14	143	3066	1.213	-0.78	39	59	1008	1.522	1.43
15	123	2850	1.122	-1.78	40	41	980	1.088	-1.18
16	118	2664	1.152	-1.32	41	56	952	1.529	1.47
17	113	2499	1.176	-1.08	42	36	924	1.013	-1.63
18	114	2352	1.260	-0.24	43	44	897	1.275	-0.05
19	125	2220	1.464	1.62	44	43	876	1.276	-0.05
20	91	2100	1.127	-1.41	45	30	855	0.912	-2.23
21	86	1995	1.121	-1.47	46	42	834	1.309	0.15
22	91	1898	1.247	-0.33	47	35	813	1.119	-0.99
23	98	1807	1.410	1.13	48	34	792	1.116	-1.01
24	85	1728	1.279	-0.04	49	55	771	1.855	3.43
25	67	1650	1.056	-1.82	50	28	750	0.971	-1.88
26	97	1584	1.592	2.46	51	35	735	1.238	-0.23

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	9	0.09	93.56	28.8
5	296	4	0.01	1088.04	66.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	1	71	c w i e l
4	23	98	f p z o
5	223	7	i l t u z
6	95	70	o k n d t i
4	126	163	w i k p

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT b h c s f D 159
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 399 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	19												
b	17	IC TESTS FOR SIGNIFICANCE							TOTAL				
c	16	MONO IC 1.0462 SIGMAGE							2.6 399	3195	3053		
d	27	DIGRAPHIC TESTS											
e	16	DIGRAPH	IC	1.198	SIGMAGE	2.1	398		140	117			
f	17	CUT A	IC	1.338	SIGMAGE	1.8	199		39	29			
g	12	CUT B	IC	0.995	SIGMAGE	0.0	199		29	29			
h	29	TRIGRAPHIC TESTS											
i	13	TRIGRAPH	IC	3.13	SIGMAGE	4.5	397		14	4.47			
j	13	CUT A	IC	0.00	SIGMAGE	-0.7	133		0	0.50			
k	18	CUT B	IC	4.08	SIGMAGE	2.2	132		2	0.49			
l	13	CUT C	IC	0.00	SIGMAGE	-0.7	132		0	0.49			
m	19	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	21	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	15	1	9	16	-1.8	12	17	15	0.4	23	11	15	-1.1
p	18	2	19	16	0.8	13	14	15	-0.4	24	8	15	-1.8
q	13	3	20	16	1.1	14	18	15	0.7	25	14	15	-0.3
r	16	4	12	16	-1.0	15	16	15	0.2	26	12	15	-0.8
s	17	5	12	16	-1.0	16	15	15	-0.1	27	16	15	0.3
t	12	6	14	16	-0.4	17	16	15	0.2	28	11	15	-1.0
u	9	7	17	16	0.3	18	14	15	-0.3	29	13	15	-0.5
v	13	8	9	16	-1.7	19	13	15	-0.6	30	21	15	1.7
w	7	9	10	16	-1.4	20	24	15	2.3	31	11	15	-1.0
x	8	10	43	16	7.1	21	15	15	0.0	32	12	15	-0.7
y	11	11	12	16	-0.9	22	19	15	1.0	33	10	15	-1.2
z	10	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1619	39601	1.063	0.68	27	114	2751	1.077	0.34
3	1035	26334	1.022	-0.77	28	100	2646	0.983	-0.63
4	783	19701	1.033	-0.36	29	97	2548	0.990	-0.56
5	634	15721	1.049	0.08	30	100	2457	1.058	0.12
6	505	13068	1.005	-0.94	31	81	2370	0.889	-1.57
7	436	11172	1.015	-0.65	32	77	2292	0.873	-1.73
8	385	9751	1.027	-0.38	33	83	2214	0.975	-0.64
9	358	8646	1.077	0.59	34	91	2145	1.103	0.51
10	356	7761	1.193	2.65	35	74	2079	0.925	-1.09
11	262	7038	0.968	-1.33	36	93	2013	1.201	1.40
12	249	6435	1.006	-0.64	37	87	1955	1.157	1.00
13	247	5925	1.084	0.57	38	64	1900	0.876	-1.53
14	208	5488	0.985	-0.92	39	75	1845	1.057	0.10
15	196	5109	0.997	-0.69	40	86	1791	1.248	1.82
16	184	4776	1.002	-0.62	41	69	1746	1.027	-0.15
17	195	4485	1.130	1.09	42	50	1701	0.764	-2.26
18	185	4224	1.139	1.21	43	73	1656	1.146	0.80
19	138	3990	0.899	-1.91	44	47	1611	0.759	-2.30
20	176	3781	1.210	1.97	45	60	1572	0.992	-0.43
21	125	3591	0.905	-1.69	46	80	1536	1.354	2.46
22	130	3420	0.988	-0.70	47	55	1500	0.953	-0.74
23	154	3264	1.227	1.99	48	66	1464	1.172	1.01
24	127	3120	1.058	0.13	49	58	1428	1.056	0.08
25	109	2985	0.949	-1.07	50	55	1393	1.027	-0.15
26	112	2865	1.016	-0.33	51	53	1365	1.010	-0.25

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	396	8	0.18	46.74	19.0
5	395	7	0.01	1069.84	86.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
11	300	10	t d m r k c l u d a t

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 1 r a o r D 161
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 400 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	24										
b	6	IC TESTS FOR SIGNIFICANCE									
c	17	MONO IC	1.6620	SIGMAGE	37.4	400			5101	3069	
d	17	DIGRAPHIC TESTS									
e	53	DIGRAPH IC	3.073	SIGMAGE	22.5	399			361	117	
f	14	CUT A IC	3.635	SIGMAGE	14.3	200			107	29	
g	6	CUT B IC	2.745	SIGMAGE	9.5	199			80	29	
h	18	TRIGRAPHIC TESTS									
i	23	TRIGRAPH IC	9.80	SIGMAGE	18.7	398			44	4.49	
j	1	CUT A IC	12.00	SIGMAGE	7.8	133			6	0.50	
k	0	CUT B IC	8.00	SIGMAGE	5.0	133			4	0.50	
l	17	CUT C IC	18.37	SIGMAGE	12.2	132			9	0.49	
m	12	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	37	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	29	1 28 26 0.5 12 25 25 0.0 23 20 24 -0.9									
p	11	2 23 25 -0.5 13 31 25 1.3 24 20 24 -0.9									
q	1	3 35 25 2.0 14 27 25 0.5 25 31 24 1.5									
r	31	4 32 25 1.4 15 27 25 0.5 26 24 24 0.0									
s	17	5 25 25 -0.1 16 25 25 0.1 27 24 24 0.0									
t	34	6 18 25 -1.5 17 21 25 -0.7 28 20 24 -0.8									
u	15	7 28 25 0.6 18 21 24 -0.7 29 18 24 -1.2									
v	6	8 25 25 0.0 19 21 24 -0.7 30 29 24 1.1									
w	2	9 31 25 1.2 20 27 24 0.6 31 30 24 1.4									
x	0	10 26 25 0.2 21 26 24 0.4 32 25 24 0.3									
y	9	11 26 25 0.2 22 20 24 -0.9 33 24 23 0.1									
z	0	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2529	39800	1.652	-0.40	27	199	2765	1.871	2.30
3	1770	26467	1.739	2.54	28	169	2660	1.652	-0.10
4	1250	19800	1.641	-0.59	29	163	2561	1.655	-0.07
5	1117	15800	1.838	4.40	30	174	2470	1.832	1.70
6	878	13134	1.738	1.75	31	144	2382	1.572	-0.90
7	700	11229	1.621	-0.86	32	127	2304	1.433	-2.29
8	607	9800	1.610	-1.04	33	152	2226	1.775	1.02
9	588	8690	1.759	1.84	34	146	2156	1.761	0.89
10	536	7800	1.787	2.25	35	139	2090	1.729	0.60
11	434	7074	1.595	-1.14	36	132	2024	1.696	0.31
12	422	6468	1.696	0.54	37	123	1965	1.627	-0.32
13	352	5955	1.537	-1.88	38	126	1910	1.715	0.48
14	348	5516	1.640	-0.33	39	117	1855	1.640	-0.20
15	363	5135	1.838	2.46	40	140	1800	2.022	3.24
16	273	4800	1.479	-2.56	41	125	1755	1.852	1.52
17	313	4508	1.805	1.86	42	110	1710	1.673	0.09
18	301	4246	1.843	2.35	43	118	1665	1.843	1.45
19	260	4011	1.685	0.30	44	97	1620	1.557	-0.84
20	272	3800	1.861	2.39	45	110	1580	1.810	1.18
21	224	3610	1.613	-0.59	46	87	1544	1.465	-1.58
22	209	3438	1.581	-0.97	47	101	1508	1.741	0.63
23	187	3281	1.482	-1.98	48	91	1472	1.607	-0.44
24	196	3136	1.625	-0.41	49	81	1436	1.467	-1.56
25	234	3000	2.028	4.03	50	106	1400	1.969	2.46
26	167	2880	1.508	-1.69	51	100	1372	1.895	1.63

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	397	8	0.18	46.51	18.9
5	396	2	0.01	303.84	24.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	75	228	a o o u
4	169	59	f l e t
5	1	93	i r a o r
5	9	25	i t o i h
4	177	204	s n n y
4	307	71	s n t s

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 2 3 0 2 2 D 165
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 570 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	55							
1	65	IC TESTS FOR SIGNIFICANCE						
2	68	MONO IC 1.0002 SIGMAGE	0.0	570		16219	16216	
3	52	DIGRAPHIC TESTS						
4	68	DIGRAPH IC 1.084 SIGMAGE	3.4	569		1751	1616	
5	52	CUT A IC 1.142 SIGMAGE	2.9	285		462	405	
6	55	CUT B IC 1.117 SIGMAGE	2.4	284		449	402	
7	45	TRIGRAPHIC TESTS						
8	54	TRIGRAPH IC 1.43 SIGMAGE	5.5	568		231	161.03	
9	56	CUT A IC 1.95 SIGMAGE	4.0	190		35	17.96	
		CUT B IC 1.58 SIGMAGE	2.5	189		28	17.77	
		CUT C IC 1.35 SIGMAGE	1.5	189		24	17.77	

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	49	57	-1.1	12	52	56	-0.5	23	51	55	-0.5
2	67	57	1.4	13	61	56	0.7	24	69	55	2.1
3	59	57	0.3	14	54	56	-0.2	25	47	55	-1.1
4	55	57	-0.2	15	41	56	-2.1	26	55	54	0.1
5	57	57	0.1	16	51	55	-0.6	27	64	54	1.4
6	60	56	0.5	17	63	55	1.1	28	46	54	-1.2
7	63	56	0.9	18	58	55	0.4	29	49	54	-0.7
8	58	56	0.3	19	60	55	0.7	30	63	54	1.3
9	75	56	2.7	20	54	55	-0.1	31	55	54	0.2
10	53	56	-0.4	21	57	55	0.3	32	45	54	-1.3
11	62	56	0.9	22	51	55	-0.5	33	56	54	0.3

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	8031	80940	0.992	-0.76	27	594	5733	1.036	0.90
3	5375	53865	0.998	-0.15	28	535	5520	0.969	-0.78
4	3978	40328	0.986	-0.94	29	543	5320	1.021	0.50
5	3178	32205	0.987	-0.78	30	513	5130	1.000	0.00
6	2650	26790	0.989	-0.61	31	487	4959	0.982	-0.41
7	2284	22923	0.996	-0.20	32	462	4794	0.964	-0.83
8	1990	20022	0.994	-0.28	33	432	4641	0.931	-1.59
9	1786	17766	1.005	0.22	34	459	4496	1.021	0.46
10	1580	15960	0.990	-0.42	35	463	4360	1.062	1.36
11	1446	14484	0.998	-0.08	36	403	4230	0.953	-1.03
12	1311	13254	0.989	-0.42	37	392	4110	0.954	-0.97
13	1317	12212	1.078	2.89	38	364	3990	0.912	-1.85
14	1115	11320	0.985	-0.53	39	397	3885	1.022	0.46
15	1052	10545	0.998	-0.07	40	346	3780	0.915	-1.79
16	969	9870	0.982	-0.59	41	356	3679	0.968	-0.64
17	990	9273	1.068	2.18	42	340	3588	0.948	-1.04
18	834	8742	0.954	-1.43	43	355	3497	1.015	0.30
19	792	8265	0.958	-1.26	44	338	3408	0.992	-0.15
20	756	7840	0.964	-1.08	45	343	3330	1.030	0.57
21	728	7452	0.977	-0.67	46	319	3252	0.981	-0.36
22	703	7100	0.990	-0.28	47	286	3174	0.901	-1.88
23	670	6780	0.988	-0.32	48	306	3102	0.986	-0.27
24	655	6486	1.010	0.27	49	309	3036	1.018	0.32
25	636	6215	1.023	0.60	50	320	2970	1.077	1.39
26	638	5964	1.070	1.82	51	319	2904	1.098	1.76

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	567	35	16.04	2.18	4.8
5	566	8	1.59	5.00	5.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	256	161	0 6 6 9	
6	32	490	1 2 1 0	2 3
4	22	409	1 2 9 0	
6	443	30	1 6 3 9	6 2
4	39	22	1 8 0 9	
4	5	256	2 8 8 8	
4	15	537	4 0 9 9	
4	337	93	4 1 2 9	
4	76	424	4 4 4 5	
7	243	250	5 4 7 2	4 8 1
4	46	396	6 1 6 3	
5	164	251	6 2 0 6	6
4	102	375	6 2 1 0	
4	48	275	6 3 8 4	
4	167	191	6 6 3 2	
4	206	52	6 9 5 2	
4	206	331	6 9 5 2	
4	258	279	6 9 5 2	
4	67	143	7 3 7 8	
4	67	250	7 3 7 8	
4	210	107	7 3 7 8	
4	160	176	7 4 1 2	
4	7	390	8 8 4 8	
4	264	190	8 9 6 2	
4	24	18	9 0 4 2	
4	226	183	9 5 4 5	
4	265	211	9 6 2 1	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT y i e y m D 190
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 300 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	35										
b	1	IC TESTS FOR SIGNIFICANCE									
c	0	MONO IC	3.1994	SIGMAGE	93.3	300			5519	1725	
d	1	DIGRAPHIC TESTS									
e	73	DIGRAPH IC	12.715	SIGMAGE	95.3	299			838	66	
f	0	CUT A IC	13.671	SIGMAGE	51.7	150			226	17	
g	3	CUT B IC	11.955	SIGMAGE	44.4	149			195	16	
h	2	TRIGRAPHIC TESTS									
i	28	TRIGRAPH IC	92.46	SIGMAGE	145.4	298			233	2.52	
j	1	CUT A IC	114.29	SIGMAGE	60.4	100			32	0.28	
k	2	CUT B IC	110.71	SIGMAGE	57.9	99			31	0.28	
l	3	CUT C IC	92.86	SIGMAGE	48.5	99			26	0.28	
m	9	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	3	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	41	1 16 37 -3.7 12 32 35 -0.6 23 39 34 0.9									
p	2	2 30 37 -1.2 13 44 35 1.6 24 28 34 -1.1									
q	1	3 36 37 -0.1 14 30 35 -0.9 25 19 34 -2.7									
r	2	4 33 36 -0.6 15 35 35 0.0 26 40 34 1.2									
s	0	5 37 36 0.1 16 39 35 0.7 27 35 34 0.3									
t	26	6 37 36 0.1 17 34 35 -0.1 28 35 33 0.3									
u	28	7 29 36 -1.3 18 36 35 0.2 29 37 33 0.7									
v	1	8 38 36 0.4 19 28 35 -1.2 30 30 33 -0.6									
w	1	9 25 36 -1.9 20 35 34 0.1 31 36 33 0.5									
x	2	10 42 36 1.1 21 41 34 1.2 32 27 33 -1.1									
y	25	11 36 36 0.1 22 32 34 -0.4 33 42 33 1.7									
z	10	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2747	22350	3.196	-0.09	27	209	1518	3.580	3.05
3	1851	14850	3.241	1.01	28	178	1460	3.170	-0.23
4	1370	11100	3.209	0.21	29	173	1405	3.201	0.02
5	1117	8850	3.282	1.58	30	147	1350	2.831	-2.58
6	897	7350	3.173	-0.44	31	174	1305	3.467	1.88
7	755	6279	3.126	-1.17	32	143	1260	2.951	-1.74
8	656	5476	3.115	-1.26	33	143	1215	3.060	-0.97
9	645	4851	3.457	3.61	34	143	1176	3.162	-0.26
10	525	4350	3.138	-0.79	35	140	1140	3.193	-0.04
11	459	3942	3.027	-2.24	36	166	1104	3.909	4.97
12	430	3600	3.106	-1.12	37	132	1068	3.213	0.10
13	447	3312	3.509	3.72	38	131	1036	3.288	0.53
14	357	3066	3.027	-1.89	39	137	1008	3.534	2.01
15	354	2850	3.229	0.33	40	107	980	2.839	-2.16
16	310	2664	3.026	-1.73	41	112	952	3.059	-0.84
17	299	2499	3.111	-0.88	42	107	924	3.011	-1.13
18	314	2352	3.471	2.72	43	116	897	3.362	0.98
19	272	2220	3.186	-0.12	44	94	876	2.790	-2.45
20	258	2100	3.194	-0.05	45	125	855	3.801	3.61
21	248	1995	3.232	0.30	46	100	834	3.118	-0.49
22	217	1898	2.973	-2.03	47	114	813	3.646	2.68
23	233	1807	3.353	1.39	48	86	792	2.823	-2.26
24	188	1728	2.829	-2.96	49	110	771	3.709	3.06
25	190	1650	2.994	-1.64	50	86	750	2.981	-1.31
26	220	1584	3.611	3.30	51	80	735	2.830	-1.85

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	297	101	0.09	1050.40	326.0
5	296	67	0.01	18116.80	1101.1

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STETHOSCOPE PROGRAM

PAGE 2

LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	136	106	e o e i
5	23	95	e t a e u
4	23	157	e t a e
4	23	261	e t a e
4	118	62	e t a e
4	118	166	e t a e
4	70	123	e t e a
14	123	108	e t y a o e o e y a z e o e
6	109	170	e u a y t e
6	163	95	e u a o u y
13	144	101	i m y e a t o e i o y i u
4	82	3	o e i o
4	82	55	o e i o
4	82	68	o e i o
4	82	169	o e i o
7	85	52	o e i o y i u
7	85	65	o e i o y i u
8	85	166	o e i o y i u e
7	137	13	o e i o y i u
7	137	114	o e i o y i u
4	127	8	o e o e
4	135	100	o e o e
4	22	135	o e t a
4	22	242	o e t a
6	157	107	o e t a o i
14	11	170	t a e m h u e e o i a o e t
5	179	104	t e t a e i
6	34	62	u e e y i e
4	27	54	u o e i
8	1	36	y i e y m g u t
8	1	171	y i e y m g u t
8	37	135	y i e y m g u t
4	99	109	y i e e
4	112	56	y t e a

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT v z r b k D 195
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 450 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	18										
b	35	IC TESTS FOR SIGNIFICANCE									
c	14	MONO IC 1.0969	SIGMAGE	6.1	450				4262	3885	
d	12	DIGRAPHIC TESTS									
e	9	DIGRAPH IC 1.842	SIGMAGE	10.3	449				274	149	
f	17	CUT A IC 1.717	SIGMAGE	4.4	225				64	37	
g	11	CUT B IC 1.949	SIGMAGE	5.8	224				72	37	
h	20	TRIGRAPHIC TESTS									
i	12	TRIGRAPH IC 5.09	SIGMAGE	9.8	448				29	5.70	
j	13	CUT A IC 15.63	SIGMAGE	11.7	150				10	0.64	
k	10	CUT B IC 9.52	SIGMAGE	6.8	149				6	0.63	
l	19	CUT C IC 9.52	SIGMAGE	6.8	149				6	0.63	
m	27	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	22	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF									
o	8	1. 74 19 13.0 12 18 18							23	26	1.9
p	27	2 12 19 -1.6 13 14 18							24	16	-0.5
q	27	3 13 19 -1.4 14 15 18							25	16	-0.4
r	25	4 17 19 -0.4 15 16 18							26	24	1.5
s	16	5 15 19 -0.9 16 16 18							27	28	2.5
t	11	6 10 19 -2.0 17 16 18							28	11	-1.6
u	18	7 14 19 -1.1 18 25 18							29	16	-0.4
v	12	8 16 19 -0.6 19 16 18							30	11	-1.6
w	25	9 31 19 3.0 20 15 18							31	8	-2.3
x	13	10 18 18 -0.1 21 15 18							32	16	-0.4
y	15	11 22 18 0.8 22 21 18							33	18	0.1
z	14	12 22 18 0.8 22 21 18							33	18	0.1

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2057	50400	1.061	-1.62	27	195	3528	1.437	4.08
3	1500	33525	1.163	2.44	28	126	3392	0.966	-1.57
4	999	25088	1.035	-1.98	29	118	3270	0.938	-1.75
5	818	20025	1.062	-0.98	30	135	3150	1.114	0.19
6	704	16650	1.099	0.05	31	130	3045	1.110	0.14
7	613	14240	1.119	0.53	32	128	2940	1.132	0.39
8	502	12432	1.050	-1.03	33	117	2847	1.068	-0.32
9	633	11025	1.493	8.32	34	101	2756	0.953	-1.58
10	402	9900	1.056	-0.82	35	132	2670	1.285	1.88
11	370	8980	1.071	-0.49	36	127	2592	1.274	1.77
12	339	8214	1.073	-0.43	37	102	2514	1.055	-0.42
13	341	7565	1.172	1.28	38	101	2442	1.075	-0.22
14	294	7008	1.091	-0.10	39	126	2376	1.379	2.82
15	298	6525	1.187	1.44	40	103	2310	1.159	0.62
16	262	6104	1.116	0.30	41	78	2245	0.903	-1.94
17	228	5733	1.034	-0.95	42	103	2190	1.223	1.13
18	299	5400	1.440	5.15	43	83	2135	1.011	-0.77
19	198	5106	1.008	-1.25	44	78	2080	0.975	-1.10
20	185	4840	0.994	-1.44	45	127	2025	1.631	4.81
21	227	4599	1.283	2.60	46	87	1980	1.142	0.41
22	168	4380	0.997	-1.30	47	84	1935	1.129	0.29
23	197	4180	1.225	1.66	48	72	1890	0.990	-0.96
24	157	3996	1.022	-0.98	49	80	1845	1.127	0.27
25	142	3825	0.965	-1.58	50	63	1800	0.910	-1.68
26	157	3672	1.112	0.18	51	65	1764	0.958	-1.11

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	447	9	0.21	41.26	18.8
5	446	5	0.01	598.14	54.7

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
7	169	198	a a f n f w w
5	393	9	h r p w w
5	185	108	m x q q r
4	118	117	s h h o

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT p e n t r D 196
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 150 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	17										
b	0	IC TESTS FOR SIGNIFICANCE									
c	5	MONO IC	2.0754	SIGMAGE	22.8	150			892	429	
d	9	DIGRAPHIC TESTS									
e	20	DIGRAPH IC	8.032	SIGMAGE	28.5	149			131	16	
f	2	CUT A IC	9.988	SIGMAGE	18.3	75			41	4	
g	3	CUT B IC	9.761	SIGMAGE	17.6	74			39	4	
h	0	TRIGRAPHIC TESTS									
i	17	TRIGRAPH IC	37.10	SIGMAGE	28.5	148			23	0.62	
j	0	CUT A IC	57.14	SIGMAGE	15.0	50			4	0.07	
k	0	CUT B IC	42.86	SIGMAGE	10.9	49			3	0.07	
l	10	CUT C IC	14.29	SIGMAGE	3.5	49			1	0.07	
m	2	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	9	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF									
o	5	1 0 12	-3.6	12	13	11	0.6	23	4	10	-2.0
p	7	2 15 12	1.0	13	5	11	-1.9	24	14	10	1.3
q	0	3 9 12	-0.8	14	19	11	2.6	25	9	10	-0.3
r	20	4 6 12	-1.7	15	6	11	-1.5	26	17	10	2.3
s	8	5 9 12	-0.8	16	15	11	1.4	27	9	10	-0.3
t	7	6 10 12	-0.5	17	12	11	0.4	28	7	10	-0.9
u	8	7 9 11	-0.8	18	12	11	0.5	29	8	10	-0.6
v	1	8 17 11	1.7	19	13	10	0.8	30	8	10	-0.5
w	0	9 5 11	-1.9	20	11	10	0.2	31	10	10	0.2
x	0	10 14 11	0.9	21	8	10	-0.8	32	13	9	1.2
y	0	11 8 11	-1.0	22	9	10	-0.4	33	7	9	-0.8
z	0	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	523	5550	2.450	5.63	27	35	345	2.638	2.25
3	291	3675	2.059	-0.19	28	27	330	2.127	0.21
4	244	2738	2.317	2.66	29	23	315	1.898	-0.71
5	166	2175	1.984	-0.82	30	28	300	2.427	1.06
6	170	1800	2.456	3.43	31	27	290	2.421	1.04
7	113	1533	1.917	-1.26	32	27	280	2.507	1.30
8	131	1332	2.557	3.37	33	29	270	2.793	2.15
9	92	1176	2.034	-0.29	34	25	260	2.500	1.28
10	94	1050	2.328	1.77	35	15	250	1.560	-1.55
11	78	949	2.137	0.37	36	22	240	2.383	0.92
12	87	864	2.618	3.26	37	23	230	2.600	1.58
13	63	792	2.068	-0.04	38	20	222	2.342	0.80
14	73	730	2.600	2.63	39	12	216	1.444	-1.89
15	48	675	1.849	-1.13	40	20	210	2.476	1.20
16	56	630	2.311	1.18	41	16	204	2.039	-0.11
17	45	588	1.990	-0.43	42	24	198	3.152	3.23
18	50	552	2.355	1.40	43	19	192	2.573	1.49
19	50	518	2.510	2.18	44	18	186	2.516	1.32
20	45	490	2.388	1.25	45	13	180	1.878	-0.59
21	36	462	2.026	-0.20	46	15	174	2.241	0.50
22	43	438	2.553	1.91	47	12	168	1.857	-0.65
23	30	417	1.871	-0.82	48	12	162	1.926	-0.30
24	35	396	2.298	0.89	49	6	156	1.000	-2.15
25	23	375	1.595	-1.92	50	8	150	1.387	-1.38
26	36	360	2.600	2.10	51	9	147	1.592	-0.97

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	147	2	0.03	85.17	12.9
5	146	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	2	118	e n t r
4	10	57	e r e a

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t o r o e D 206
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 310 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	15										
b	2	IC TESTS FOR SIGNIFICANCE									
c	5	MONO IC	1.8283	SIGMAGE	36.3	310			3368	1842	
d	9	DIGRAPHIC TESTS									
e	39	DIGRAPH IC	3.466	SIGMAGE	20.7	309			244	70	
f	10	CUT A IC	5.041	SIGMAGE	17.0	155			89	18	
g	5	CUT B IC	3.156	SIGMAGE	9.0	154			55	17	
h	5	TRIGRAPHIC TESTS									
i	27	TRIGRAPH IC	7.06	SIGMAGE	10.0	308			19	2.69	
j	0	CUT A IC	0.00	SIGMAGE	-0.5	103			0	0.30	
k	1	CUT B IC	6.67	SIGMAGE	3.1	103			2	0.30	
l	13	CUT C IC	10.34	SIGMAGE	5.1	102			3	0.29	
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	21	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	36	1 18 22 -0.8 12 24 21 0.7 23 15 20 -1.2									
p	11	2 20 22 -0.3 13 17 21 -0.9 24 22 20 0.5									
q	0	3 13 21 -1.9 14 22 21 0.3 25 23 20 0.7									
r	22	4 23 21 0.4 15 23 21 0.5 26 14 20 -1.4									
s	31	5 25 21 0.8 16 17 21 -0.8 27 20 20 0.0									
t	25	6 21 21 -0.1 17 19 21 -0.3 28 16 20 -0.9									
u	5	7 25 21 0.9 18 12 20 -1.9 29 18 20 -0.4									
v	10	8 22 21 0.2 19 16 20 -1.0 30 18 20 -0.4									
w	7	9 22 21 0.2 20 15 20 -1.2 31 21 20 0.3									
x	2	10 17 21 -0.9 21 17 20 -0.7 32 21 19 0.4									
y	3	11 18 21 -0.7 22 18 20 -0.5 33 17 19 -0.6									
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1637	23870	1.783	-1.40	27	112	1628	1.789	-0.31
3	1117	15862	1.831	0.08	28	93	1562	1.548	-2.24
4	789	11858	1.730	-2.16	29	120	1505	2.073	1.96
5	689	9455	1.895	1.27	30	100	1450	1.793	-0.28
6	542	7854	1.794	-0.61	31	89	1395	1.659	-1.35
7	479	6710	1.856	0.45	32	101	1350	1.945	0.82
8	410	5852	1.822	-0.09	33	91	1305	1.813	-0.11
9	357	5185	1.790	-0.53	34	82	1260	1.692	-0.95
10	342	4650	1.912	1.18	35	89	1220	1.897	0.48
11	301	4214	1.857	0.38	36	72	1184	1.581	-1.73
12	262	3850	1.769	-0.71	37	80	1148	1.812	-0.11
13	251	3542	1.842	0.17	38	84	1112	1.964	0.95
14	223	3278	1.769	-0.65	39	71	1078	1.712	-0.81
15	210	3050	1.790	-0.42	40	87	1050	2.154	2.28
16	184	2850	1.679	-1.64	41	79	1022	2.010	1.09
17	188	2673	1.829	0.01	42	69	994	1.805	-0.14
18	158	2516	1.633	-1.95	43	81	966	2.180	2.11
19	167	2376	1.827	-0.01	44	64	938	1.774	-0.32
20	159	2250	1.837	0.09	45	69	915	1.961	0.80
21	144	2135	1.754	-0.67	46	54	894	1.570	-1.55
22	135	2030	1.729	-0.89	47	55	873	1.638	-1.14
23	124	1937	1.664	-1.48	48	53	852	1.617	-1.27
24	126	1848	1.773	-0.50	49	56	831	1.752	-0.46
25	124	1770	1.821	-0.06	50	51	810	1.637	-1.15
26	116	1694	1.780	-0.38	51	63	789	2.076	1.49

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	307	2	0.11	19.46	5.9
5	306	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	9	160	s t e n
4	84	73	t l e v

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 1 m m i v D 208
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 311 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	15										
b	2	IC TESTS FOR SIGNIFICANCE									
c	5	MONO IC	1.8301	SIGMAGE	36.5	311			3393	1854	
d	9	DIGRAPHIC TESTS									
e	39	DIGRAPH IC	3.373	SIGMAGE	20.0	310			239	71	
f	10	CUT A IC	3.285	SIGMAGE	9.6	155			58	18	
g	5	CUT B IC	3.455	SIGMAGE	10.4	155			61	18	
h	5	TRIGRAPHIC TESTS									
i	27	TRIGRAPH IC	7.01	SIGMAGE	9.9	309			19	2.71	
j	0	CUT A IC	3.33	SIGMAGE	1.3	103			1	0.30	
k	1	CUT B IC	3.33	SIGMAGE	1.3	103			1	0.30	
l	13	CUT C IC	3.33	SIGMAGE	1.3	103			1	0.30	
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	21	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	36	1 30 22 1.8 12 13 21 -1.8 23 14 20 -1.4									
p	11	2 19 22 -0.6 13 22 21 0.3 24 18 20 -0.5									
q	0	3 15 22 -1.5 14 23 21 0.5 25 25 20 1.2									
r	22	4 25 21 0.8 15 22 21 0.3 26 21 20 0.2									
s	31	5 29 21 1.7 16 20 21 -0.1 27 26 20 1.4									
t	26	6 22 21 0.1 17 18 21 -0.6 28 22 20 0.5									
u	5	7 17 21 -1.0 18 18 21 -0.6 29 24 20 1.0									
v	10	8 29 21 1.8 19 19 20 -0.3 30 22 20 0.5									
w	7	9 24 21 0.6 20 15 20 -1.2 31 28 20 2.0									
x	2	10 16 21 -1.1 21 17 20 -0.8 32 21 20 0.3									
y	3	11 23 21 0.5 22 12 20 -1.9 33 15 17 -1.0									
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1677	24025	1.815	-0.47	27	117	1639	1.856	0.21
3	1101	15965	1.793	-0.93	28	108	1573	1.785	-0.36
4	832	11935	1.812	-0.40	29	123	1515	2.111	2.25
5	664	9517	1.814	-0.32	30	102	1460	1.816	-0.11
6	535	7905	1.760	-1.26	31	111	1405	2.054	1.79
7	452	6754	1.740	-1.44	32	90	1359	1.722	-0.76
8	412	5890	1.819	-0.17	33	88	1314	1.741	-0.62
9	350	5219	1.744	-1.20	34	87	1269	1.783	-0.33
10	311	4681	1.727	-1.44	35	86	1228	1.821	-0.06
11	295	4242	1.808	-0.29	36	76	1192	1.658	-1.20
12	263	3875	1.765	-0.78	37	72	1156	1.619	-1.48
13	243	3565	1.772	-0.70	38	83	1120	1.927	0.68
14	233	3300	1.836	0.07	39	76	1085	1.821	-0.06
15	219	3070	1.855	0.28	40	67	1057	1.648	-1.27
16	188	2869	1.704	-1.39	41	68	1029	1.718	-0.67
17	183	2691	1.768	-0.62	42	72	1001	1.870	0.24
18	159	2533	1.632	-1.98	43	76	973	2.031	1.21
19	167	2392	1.815	-0.15	44	84	945	2.311	2.89
20	142	2265	1.630	-2.00	45	57	921	1.609	-1.33
21	144	2149	1.742	-0.79	46	64	900	1.849	0.11
22	148	2044	1.883	0.48	47	64	879	1.893	0.38
23	138	1950	1.840	0.09	48	54	858	1.636	-1.16
24	134	1860	1.873	0.39	49	53	837	1.646	-1.10
25	119	1782	1.736	-0.75	50	44	816	1.402	-2.57
26	114	1705	1.738	-0.74	51	51	795	1.668	-0.97

POLYGRAPHIC HITS AND IC
 LENGTH TOTAL OBSERVED EXPECTED IC SIGMAGE
 4 308 1 0.11 9.67 2.8
 5 307 0 0.01 0.00 -0.1

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STETHOSCOPE PROGRAM PAGE 2
LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	184	115	s s o n

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT e a t e t D 210
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 170 DITS 0

											HITS OBSERVED	HITS EXPECTED
a	17											
b	2	IC TESTS FOR SIGNIFICANCE										
c	4	MONO IC	1.8208	SIGMAGE	19.7	170				1006	552	
d	10	DIGRAPHIC TESTS										
e	23	DIGRAPH IC	5.238	SIGMAGE	19.5	169				110	21	
f	3	CUT A IC	4.545	SIGMAGE	8.2	85				24	5	
g	6	CUT B IC	5.042	SIGMAGE	9.2	84				26	5	
h	6	TRIGRAPHIC TESTS										
i	12	TRIGRAPH IC	31.25	SIGMAGE	27.1	168				25	0.80	
j	0	CUT A IC	22.22	SIGMAGE	6.3	56				2	0.09	
k	2	CUT B IC	0.00	SIGMAGE	-0.3	56				0	0.09	
l	7	CUT C IC	77.78	SIGMAGE	22.9	56				7	0.09	
m	1	LOCAL ROUGHNESS OFFSETS 1 TO 33										
n	16	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE										
o	3	1 4 12 -2.4 12 13 11 0.6 23 9 10 -0.4										
p	2	2 7 12 -1.4 13 17 11 1.9 24 7 10 -1.0										
q	0	3 9 12 -0.8 14 14 11 1.0 25 16 10 1.9										
r	7	4 4 12 -2.3 15 7 11 -1.2 26 14 10 1.3										
s	19	5 8 12 -1.1 16 16 11 1.6 27 15 10 1.6										
t	11	6 20 11 2.6 17 7 11 -1.2 28 6 10 -1.3										
u	12	7 15 11 1.1 18 10 11 -0.2 29 7 10 -0.9										
v	2	8 9 11 -0.7 19 15 11 1.4 30 9 10 -0.3										
w	1	9 10 11 -0.4 20 17 11 2.1 31 16 10 2.1										
x	0	10 5 11 -1.9 21 8 10 -0.8 32 9 10 -0.2										
y	0	11 9 11 -0.7 22 10 10 -0.1 33 14 10 1.5										
z	4	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W										

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	496	7140	1.806	-0.26	27	44	453	2.525	2.82
3	341	4732	1.874	0.74	28	22	432	1.324	-1.99
4	231	3528	1.702	-1.43	29	27	415	1.692	-0.52
5	178	2805	1.650	-1.88	30	25	400	1.625	-0.78
6	166	2324	1.857	0.36	31	31	385	2.094	1.09
7	127	1980	1.668	-1.38	32	25	370	1.757	-0.26
8	117	1722	1.767	-0.43	33	26	355	1.904	0.33
9	111	1521	1.897	0.61	34	20	340	1.529	-1.17
10	91	1360	1.740	-0.57	35	14	330	1.103	-2.87
11	89	1230	1.881	0.42	36	20	320	1.625	-0.78
12	73	1120	1.695	-0.88	37	26	310	2.181	1.08
13	85	1027	2.152	1.99	38	23	300	1.993	0.52
14	71	948	1.947	0.76	39	24	290	2.152	0.99
15	56	880	1.655	-1.00	40	18	280	1.671	-0.45
16	58	820	1.839	0.11	41	20	270	1.926	0.32
17	45	765	1.529	-1.75	42	23	260	2.300	1.44
18	46	720	1.661	-0.80	43	19	252	1.960	0.42
19	48	676	1.846	0.13	44	22	246	2.325	1.51
20	44	640	1.788	-0.17	45	15	240	1.625	-0.59
21	40	604	1.722	-0.50	46	19	234	2.111	0.87
22	43	574	1.948	0.64	47	19	228	2.167	1.04
23	41	546	1.952	0.66	48	14	222	1.640	-0.54
24	31	518	1.556	-1.33	49	20	216	2.407	1.76
25	43	495	2.259	1.75	50	14	210	1.733	-0.26
26	41	474	2.249	1.71	51	12	204	1.529	-0.88

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	167	3	0.04	98.91	17.1
5	166	1	0.01	867.25	29.5

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STETHOSCOPE PROGRAM

PAGE 2

LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
5	43	59	e s s u a
4	84	6	e s s a

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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28C

STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT i n u e r D 211
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 200 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	16										
b	1	IC TESTS FOR SIGNIFICANCE									
c	5	MONO IC 2.2381 SIGMAGE	35.0	200					1713	765	
d	6	DIGRAPHIC TESTS									
e	40	DIGRAPH IC 6.794 SIGMAGE	31.4	199					198	29	
f	1	CUT A IC 6.555 SIGMAGE	15.1	100					48	7	
g	3	CUT B IC 6.410 SIGMAGE	14.6	99					46	7	
h	2	TRIGRAPHIC TESTS									
i	17	TRIGRAPH IC 18.92 SIGMAGE	18.9	198					21	1.11	
j	0	CUT A IC 41.67 SIGMAGE	14.3	66					5	0.12	
k	0	CUT B IC 16.67 SIGMAGE	5.5	66					2	0.12	
l	13	CUT C IC 41.67 SIGMAGE	14.3	66					5	0.12	
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	14	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	14	1 14 17 -0.8 12 16 16 0.0 23 23 15 2.1									
p	5	2 11 17 -1.5 13 14 16 -0.5 24 14 15 -0.3									
q	1	3 11 17 -1.5 14 14 16 -0.5 25 10 15 -1.4									
r	17	4 17 17 0.0 15 16 16 0.0 26 11 15 -1.1									
s	18	5 21 17 1.1 16 19 16 0.8 27 18 15 0.8									
t	11	6 16 17 -0.2 17 14 16 -0.5 28 15 15 0.1									
u	7	7 17 17 0.1 18 19 16 0.9 29 13 15 -0.5									
v	3	8 8 17 -2.2 19 16 16 0.1 30 17 15 0.7									
w	0	9 18 16 0.4 20 17 15 0.4 31 9 15 -1.5									
x	0	10 10 16 -1.6 21 10 15 -1.4 32 16 14 0.4									
y	0	11 15 16 -0.3 22 16 15 0.2 33 12 14 -0.7									
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	851	9900	2.235	-0.06	27	51	644	2.059	-0.90
3	591	6567	2.340	1.63	28	50	616	2.110	-0.64
4	414	4900	2.197	-0.57	29	55	591	2.420	0.91
5	322	3900	2.147	-1.18	30	56	570	2.554	1.58
6	290	3234	2.331	1.02	31	44	549	2.084	-0.77
7	232	2758	2.187	-0.56	32	54	528	2.659	2.11
8	193	2400	2.091	-1.47	33	46	507	2.359	0.48
9	194	2123	2.376	1.24	34	46	490	2.441	0.81
10	161	1900	2.203	-0.32	35	41	475	2.244	0.02
11	139	1719	2.102	-1.09	36	33	460	1.865	-1.49
12	128	1568	2.122	-0.93	37	48	445	2.804	2.26
13	118	1440	2.131	-0.86	38	28	430	1.693	-2.18
14	118	1330	2.307	0.48	39	48	415	3.007	3.08
15	112	1235	2.358	0.84	40	26	400	1.690	-2.19
16	110	1152	2.483	1.72	41	42	390	2.800	2.25
17	92	1078	2.219	-0.13	42	36	380	2.463	0.90
18	89	1012	2.287	0.29	43	35	370	2.459	0.88
19	66	955	1.797	-2.65	44	33	360	2.383	0.58
20	72	900	2.080	-0.95	45	35	350	2.600	1.45
21	75	855	2.281	0.26	46	35	340	2.676	1.75
22	70	810	2.247	0.05	47	29	330	2.285	0.19
23	79	772	2.661	2.54	48	27	320	2.194	-0.18
24	57	736	2.014	-1.12	49	23	310	1.929	-0.93
25	60	700	2.229	-0.05	50	31	300	2.687	1.35
26	58	672	2.244	0.03	51	29	294	2.565	0.98

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	197	5	0.05	118.33	24.2
5	196	1	0.01	621.74	25.0

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STETHOSCOPE PROGRAM PAGE 2
LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	14	126	e s e l
4	27	90	o c a l
4	67	100	r e m a
5	81	60	s e l r e

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT a p e s a D 212
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 160 DITS 0

					TOTAL	HITS OBSERVED	HITS EXPECTED
a	20						
b	0	IC TESTS FOR SIGNIFICANCE					
c	5	MONO IC	2.0297	SIGMAGE	23.3	160	993
d	4	DIGRAPHIC TESTS					
e	14	DIGRAPH IC	6.081	SIGMAGE	22.0	159	113
f	3	CUT A IC	8.557	SIGMAGE	16.5	80	40
g	2	CUT B IC	5.485	SIGMAGE	9.6	79	25
h	0	TRIGRAPHIC TESTS					
i	13	TRIGRAPH IC	25.35	SIGMAGE	20.5	158	18
j	0	CUT A IC	37.50	SIGMAGE	10.3	53	3
k	0	CUT B IC	0.00	SIGMAGE	-0.3	53	0
l	7	CUT C IC	62.50	SIGMAGE	17.1	52	5
m	2	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	14	OFF	OBS	EXP	SIGMAGE	OFF	OBS
o	19	1	6	12	-1.9	12	15
p	7	2	16	12	1.1	13	21
q	2	3	12	12	-0.1	14	11
r	10	4	11	12	-0.3	15	11
s	22	5	14	12	0.6	16	9
t	5	6	11	12	-0.3	17	12
u	7	7	17	12	1.5	18	7
v	1	8	15	12	1.0	19	15
w	0	9	13	12	0.4	20	4
x	0	10	9	12	-0.8	21	6
y	2	11	13	12	0.4	22	11
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	509	6320	2.094	1.02	27	33	395	2.172	0.57
3	331	4187	2.055	0.33	28	39	380	2.668	2.55
4	248	3120	2.067	0.41	29	24	365	1.710	-1.28
5	183	2480	1.919	-1.11	30	37	350	2.749	2.88
6	178	2054	2.253	2.01	31	21	335	1.630	-1.60
7	137	1749	2.037	0.06	32	20	320	1.625	-1.62
8	130	1520	2.224	1.55	33	24	310	2.013	-0.05
9	107	1343	2.071	0.29	34	16	300	1.387	-1.93
10	92	1200	1.993	-0.26	35	19	290	1.703	-0.98
11	91	1085	2.181	1.06	36	28	280	2.600	1.71
12	104	988	2.737	4.24	37	17	270	1.637	-1.18
13	71	906	2.038	0.05	38	21	260	2.100	0.21
14	71	836	2.208	1.07	39	11	250	1.144	-2.66
15	69	775	2.315	1.71	40	16	240	1.733	-0.89
16	55	720	1.986	-0.22	41	24	234	2.667	1.91
17	40	675	1.541	-2.45	42	16	228	1.825	-0.62
18	52	632	2.139	0.55	43	29	222	3.396	4.10
19	52	596	2.268	1.19	44	18	216	2.167	0.41
20	38	560	1.764	-1.33	45	19	210	2.352	0.97
21	32	532	1.564	-2.33	46	11	204	1.402	-1.88
22	43	504	2.218	0.75	47	14	198	1.838	-0.58
23	31	477	1.690	-1.36	48	23	192	3.115	3.26
24	45	456	2.566	2.14	49	14	186	1.957	-0.22
25	23	435	1.375	-2.62	50	11	180	1.589	-1.32
26	31	414	1.947	-0.33	51	11	174	1.644	-1.16

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	157	3	0.02	111.95	18.2
5	156	0	0.01	0.00	0.0

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	12	54	a l a r
4	60	38	n o s o
4	87	12	o s o s

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT w p o r o D 214
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 312 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	15												
b	2	IC TESTS FOR SIGNIFICANCE											
c	5	MONO IC	1.8194	SIGMAGE	36.1	312			3395	1866			
d	9	DIGRAPHIC TESTS											
e	39	DIGRAPH IC	4.235	SIGMAGE	27.4	311			302	71			
f	10	CUT A IC	4.417	SIGMAGE	14.5	156			79	18			
g	5	CUT B IC	4.531	SIGMAGE	14.9	155			80	18			
h	5	TRIGRAPHIC TESTS											
i	27	TRIGRAPH IC	13.55	SIGMAGE	20.7	310			37	2.73			
j	0	CUT A IC	43.33	SIGMAGE	23.5	104			13	0.30			
k	1	CUT B IC	20.00	SIGMAGE	10.4	103			6	0.30			
l	13	CUT C IC	16.67	SIGMAGE	8.6	103			5	0.30			
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	21	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	36	1	20	22	-0.4	12	28	21	1.6	23	27	20	1.6
p	11	2	18	22	-0.8	13	21	21	0.0	24	19	20	-0.3
q	0	3	22	22	0.1	14	22	21	0.3	25	26	20	1.4
r	22	4	24	22	0.5	15	30	21	2.1	26	21	20	0.2
s	31	5	14	21	-1.7	16	22	21	0.3	27	20	20	0.0
t	26	6	17	21	-1.0	17	19	21	-0.4	28	17	20	-0.7
u	5	7	20	21	-0.3	18	17	21	-0.8	29	12	20	-1.8
v	10	8	29	21	1.7	19	15	21	-1.3	30	17	20	-0.6
w	7	9	20	21	-0.3	20	18	20	-0.6	31	21	20	0.3
x	3	10	29	21	1.8	21	29	20	2.0	32	20	20	0.1
y	3	11	28	21	1.6	22	21	20	0.2	33	13	20	-1.5
z	1	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	1725	24180	1.855	1.12	27	113	1650	1.781	-0.30
3	1169	16068	1.892	1.83	28	115	1584	1.888	0.55
4	892	12012	1.931	2.46	29	106	1525	1.807	-0.10
5	656	9579	1.781	-0.76	30	95	1470	1.680	-1.11
6	575	7956	1.879	1.08	31	105	1415	1.929	0.88
7	460	6798	1.759	-1.02	32	100	1368	1.901	0.57
8	442	5928	1.939	1.80	33	91	1323	1.788	-0.22
9	383	5253	1.896	1.16	34	63	1278	1.282	-3.76
10	321	4712	1.771	-0.67	35	91	1236	1.914	0.67
11	305	4270	1.857	0.49	36	91	1200	1.972	1.07
12	302	3900	2.013	2.52	37	75	1164	1.675	-1.01
13	250	3588	1.812	-0.08	38	73	1128	1.683	-0.95
14	214	3322	1.675	-1.73	39	88	1092	2.095	1.93
15	223	3090	1.876	0.63	40	73	1064	1.784	-0.25
16	211	2888	1.900	0.89	41	71	1036	1.782	-0.22
17	157	2709	1.507	-3.12	42	71	1008	1.831	0.07
18	187	2550	1.907	0.88	43	67	980	1.778	-0.25
19	149	2408	1.609	-2.10	44	76	952	2.076	1.54
20	149	2280	1.699	-1.20	45	64	927	1.795	-0.14
21	169	2163	2.031	1.91	46	60	906	1.722	-0.58
22	152	2058	1.920	0.91	47	61	885	1.792	-0.16
23	151	1963	2.000	1.63	48	68	864	2.046	1.36
24	138	1872	1.917	0.88	49	52	843	1.604	-1.29
25	136	1794	1.971	1.37	50	54	822	1.708	-0.67
26	135	1716	2.045	1.81	51	50	801	1.623	-1.18

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	309	2	0.11	19.21	5.9
5	308	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	118	115	o s s t
4	95	39	s t v e

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT t w m u o D 218b
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 360 DITS 0

										HITS OBSERVED	HITS EXPECTED
a	32										
b	4	IC TESTS FOR SIGNIFICANCE									
c	15	MONO IC	1.8166	SIGMAGE	41.5	360			4515	2485	
d	4	DIGRAPHIC TESTS									
e	53	DIGRAPH IC	3.009	SIGMAGE	19.6	359			286	95	
f	4	CUT A IC	2.937	SIGMAGE	9.5	180			70	24	
g	5	CUT B IC	2.885	SIGMAGE	9.2	179			68	24	
h	5	TRIGRAPHIC TESTS									
i	16	TRIGRAPH IC	5.49	SIGMAGE	8.6	358			20	3.64	
j	0	CUT A IC	4.88	SIGMAGE	2.5	120			2	0.41	
k	2	CUT B IC	2.50	SIGMAGE	1.0	119			1	0.40	
l	10	CUT C IC	2.50	SIGMAGE	1.0	119			1	0.40	
m	22	LOCAL ROUGHNESS OFFSETS 1 TO 33									
n	20	OFF OBS EXP SIGMAGE OFF OBS EXP SIGMAGE									
o	37	1 22 25 -0.6 12 21 24 -0.7 23 23 24 -0.1									
p	23	2 30 25 1.0 13 31 24 1.4 24 20 24 -0.8									
q	0	3 28 25 0.6 14 24 24 0.0 25 18 23 -1.2									
r	31	4 28 25 0.6 15 20 24 -0.9 26 23 23 -0.1									
s	18	5 28 25 0.7 16 37 24 2.7 27 12 23 -2.4									
t	23	6 14 25 -2.2 17 18 24 -1.3 28 22 23 -0.3									
u	10	7 18 25 -1.4 18 16 24 -1.7 29 14 23 -2.0									
v	5	8 23 25 -0.3 19 14 24 -2.1 30 21 23 -0.5									
w	6	9 32 25 1.6 20 18 24 -1.2 31 26 23 0.6									
x	6	10 29 25 0.9 21 19 24 -1.0 32 18 23 -1.1									
y	0	11 14 24 -2.2 22 19 24 -1.0 33 24 23 0.2									
z	9	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W									

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	2270	32220	1.832	0.54	27	150	2223	1.754	-0.57
3	1509	21420	1.832	0.44	28	146	2136	1.777	-0.36
4	1130	16020	1.834	0.43	29	160	2058	2.021	1.84
5	912	12780	1.855	0.87	30	135	1980	1.773	-0.40
6	750	10620	1.836	0.40	31	136	1914	1.847	0.27
7	672	9078	1.925	2.05	32	118	1848	1.660	-1.41
8	568	7920	1.865	0.86	33	133	1785	1.937	0.96
9	472	7020	1.748	-1.17	34	117	1730	1.758	-0.47
10	444	6300	1.832	0.24	35	138	1675	2.142	2.60
11	426	5712	1.939	1.83	36	107	1620	1.717	-0.80
12	371	5220	1.848	0.43	37	122	1575	2.014	1.58
13	354	4806	1.915	1.37	38	102	1530	1.733	-0.67
14	334	4450	1.951	1.74	39	119	1485	2.084	2.14
15	302	4140	1.897	1.04	40	113	1440	2.040	1.78
16	275	3872	1.847	0.36	41	95	1404	1.759	-0.46
17	248	3633	1.775	-0.50	42	110	1368	2.091	1.92
18	227	3420	1.726	-1.09	43	95	1332	1.854	0.26
19	212	3231	1.706	-1.22	44	103	1296	2.066	1.74
20	216	3060	1.835	0.20	45	86	1260	1.775	-0.29
21	207	2907	1.851	0.37	46	88	1232	1.857	0.28
22	207	2768	1.944	1.40	47	89	1204	1.922	0.74
23	188	2640	1.852	0.35	48	80	1176	1.769	-0.34
24	178	2520	1.837	0.20	49	70	1148	1.585	-1.62
25	170	2415	1.830	0.13	50	80	1120	1.857	0.28
26	176	2314	1.978	1.61	51	78	1092	1.857	0.28

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	357	0	0.13	0.00	-0.4
5	356	0	0.01	0.00	-0.1

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

NONE

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT 6 1 0 8 0 D 219
 for interpretation of this run call P 1 on x 3957

~~CONFIDENTIAL~~

MONO
COUNT

TOTAL 500 DITS 0

							HITS OBSERVED	HITS EXPECTED
0	52							
1	55	IC TESTS FOR SIGNIFICANCE			TOTAL			
2	42	MONO IC 0.9933	SIGMAGE	-0.7	500		12391	12475
3	54	DIGRAPHIC TESTS						
4	41	DIGRAPH IC 0.976	SIGMAGE	-0.9	499		1213	1243
5	59	CUT A IC 0.961	SIGMAGE	-0.7	250		299	311
6	51	CUT B IC 0.962	SIGMAGE	-0.7	249		297	309
7	50	TRIGRAPHIC TESTS						
8	49	TRIGRAPH IC 1.18	SIGMAGE	2.0	498		146	123.75
9	47	CUT A IC 0.95	SIGMAGE	-0.2	166		13	13.70
		CUT B IC 1.53	SIGMAGE	2.0	166		21	13.70
		CUT C IC 0.88	SIGMAGE	-0.4	166		12	13.70

LOCAL ROUGHNESS OFFSETS 1 TO 33

OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
1	59	49	1.4	12	45	48	-0.5	23	52	47	0.7
2	51	49	0.3	13	50	48	0.3	24	52	47	0.7
3	36	49	-2.0	14	44	48	-0.6	25	51	47	0.6
4	54	49	0.7	15	60	48	1.8	26	43	47	-0.6
5	59	49	1.5	16	51	48	0.5	27	54	47	1.1
6	41	49	-1.2	17	42	48	-0.9	28	49	47	0.4
7	53	49	0.6	18	53	48	0.8	29	31	47	-2.4
8	44	49	-0.7	19	50	48	0.4	30	43	47	-0.5
9	62	49	2.0	20	57	48	1.4	31	47	46	0.1
10	46	49	-0.4	21	42	47	-0.8	32	41	46	-0.8
11	55	48	1.0	22	58	47	1.6	33	40	46	-1.0

WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	6118	62250	0.983	-0.83	27	420	4383	0.958	-0.77
3	4086	41417	0.987	-0.41	28	396	4216	0.939	-1.19
4	3038	31000	0.980	-0.77	29	417	4063	1.026	0.69
5	2501	24750	1.011	0.94	30	378	3920	0.964	-0.61
6	1980	20584	0.962	-1.49	31	388	3784	1.025	0.67
7	1711	17608	0.972	-0.92	32	347	3660	0.948	-0.90
8	1496	15376	0.973	-0.82	33	363	3540	1.025	0.64
9	1355	13640	0.993	0.00	34	308	3430	0.898	-1.90
10	1212	12250	0.989	-0.15	35	349	3325	1.050	1.08
11	1099	11115	0.989	-0.14	36	299	3224	0.927	-1.25
12	961	10168	0.945	-1.63	37	306	3133	0.977	-0.30
13	972	9367	1.038	1.44	38	325	3042	1.068	1.35
14	825	8680	0.950	-1.33	39	305	2958	1.031	0.68
15	823	8085	1.018	0.75	40	292	2880	1.014	0.38
16	714	7564	0.944	-1.42	41	252	2802	0.899	-1.69
17	673	7105	0.947	-1.29	42	240	2728	0.880	-1.92
18	651	6696	0.972	-0.57	43	263	2662	0.988	-0.09
19	658	6331	1.039	1.24	44	244	2596	0.940	-0.90
20	597	6000	0.995	0.05	45	235	2530	0.929	-1.09
21	545	5704	0.955	-0.95	46	223	2470	0.903	-1.53
22	542	5434	0.997	0.10	47	247	2415	1.023	0.48
23	495	5187	0.954	-0.94	48	232	2360	0.983	-0.16
24	489	4960	0.986	-0.16	49	227	2305	0.985	-0.13
25	467	4750	0.983	-0.23	50	209	2250	0.929	-1.02
26	459	4560	1.007	0.32	51	216	2205	0.980	-0.21

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	497	24	12.32	1.95	3.4
5	496	4	1.22	3.26	2.5

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED	TEXT
4	31	325	0 6 9 7	
5	341	15	0 6 9 7	5
5	30	310	1 0 6 9	7
4	118	18	1 9 0 5	
4	118	303	1 9 0 5	
4	136	285	1 9 0 5	
4	82	18	2 4 7 3	
4	103	115	3 3 5 5	
5	47	23	3 8 5 3	5
4	182	22	4 1 1 0	
4	220	264	5 5 5 5	
5	220	265	5 5 5 5	7
4	484	1	5 5 5 5	
4	242	169	5 6 7 3	
4	66	25	6 0 5 9	
4	1	155	6 1 0 8	
4	81	169	6 2 4 7	
4	268	58	7 6 0 7	
4	6	155	8 5 1 1	
4	18	124	9 7 7 7	

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT g h u i p D 220
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 220 DITS 0

					TOTAL	HITS OBSERVED	HITS- EXPECTED
a	7	IC TESTS FOR SIGNIFICANCE					
b	3	MONO IC 1.2282 SIGMAGE			7.1 220	1138	926
c	0						
d	3	DIGRAPHIC TESTS					
e	10	DIGRAPH IC 2.549 SIGMAGE			9.2 219	90	35
f	4	CUT A IC 2.481 SIGMAGE			4.4 110	22	9
g	7	CUT B IC 2.871 SIGMAGE			5.6 109	25	9
h	7	TRIGRAPHIC TESTS					
i	16	TRIGRAPH IC 16.30 SIGMAGE			17.8 218	22	1.35
j	9	CUT A IC 13.33 SIGMAGE			4.8 73	2	0.15
k	12	CUT B IC 13.33 SIGMAGE			4.8 73	2	0.15
l	3	CUT C IC 33.33 SIGMAGE			12.4 72	5	0.15
m	5	LOCAL ROUGHNESS OFFSETS 1 TO 33					
n	14	OFF OBS EXP SIGMAGE	OFF OBS EXP SIGMAGE				
o	12	1 16 10 1.8 12 12 10	0.7 23 12 9 0.9				
p	15	2 6 10 -1.4 13 11 10	0.4 24 7 9 -0.7				
q	19	3 10 10 -0.1 14 25 10	5.0 25 12 9 1.0				
r	11	4 7 10 -1.0 15 12 10	0.8 26 3 9 -2.1				
s	11	5 14 10 1.3 16 9 10	-0.2 27 8 9 -0.4				
t	10	6 18 10 2.6 17 16 10	2.1 28 6 9 -1.0				
u	12	7 9 10 -0.3 18 22 9	4.2 29 12 9 1.0				
v	15	8 16 10 2.0 19 15 9	1.9 30 10 9 0.4				
w	5	9 7 10 -0.9 20 10 9	0.2 31 8 9 -0.3				
x	5	10 9 10 -0.3 21 5 9	-1.5 32 12 9 1.1				
y	3	11 11 10 0.4 22 17 9	2.6 33 15 9 2.1				
z	2	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W					

W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	571	11990	1.238	0.22	27	43	788	1.419	1.15
3	385	7957	1.258	0.54	28	32	756	1.101	-0.76
4	269	5940	1.177	-0.77	29	36	728	1.286	0.29
5	225	4730	1.237	0.13	30	27	700	1.003	-1.13
6	202	3924	1.338	1.43	31	31	672	1.199	-0.15
7	143	3348	1.111	-1.40	32	29	648	1.164	-0.32
8	139	2916	1.239	0.12	33	37	627	1.534	1.53
9	138	2580	1.391	1.63	34	31	606	1.330	0.51
10	112	2310	1.261	0.33	35	28	585	1.244	0.08
11	109	2090	1.356	1.15	36	36	564	1.660	2.16
12	95	1908	1.295	0.60	37	18	545	0.859	-1.85
13	71	1752	1.054	-1.39	38	20	530	0.981	-1.24
14	82	1620	1.316	0.70	39	22	515	1.111	-0.59
15	63	1505	1.088	-1.12	40	20	500	1.040	-0.75
16	58	1404	1.074	-1.23	41	21	485	1.126	-0.41
17	73	1314	1.444	1.51	42	18	470	0.996	-0.93
18	86	1236	1.809	4.07	43	12	455	0.686	-2.17
19	52	1166	1.160	-0.48	44	23	440	1.359	0.52
20	50	1100	1.182	-0.32	45	14	430	0.847	-1.52
21	38	1045	0.945	-1.98	46	15	420	0.929	-1.20
22	50	990	1.313	0.51	47	26	410	1.649	1.68
23	42	945	1.156	-0.43	48	19	400	1.235	0.03
24	43	900	1.242	0.08	49	11	390	0.733	-1.98
25	43	860	1.300	0.43	50	20	380	1.368	0.56
26	30	824	0.947	-1.69	51	16	370	1.124	-0.42

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	217	9	0.06	175.46	39.6
5	216	6	0.01	3080.74	136.6

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STETHOSCOPE PROGRAM
LIST OF HITS OF LENGTH 4 OR LONGER

PAGE 2

LENGTH	POSITION	OFFSET	REPEATED TEXT
7	170	14	i k v p x v u
6	72	18	v n p r o q
5	156	18	x v u k r

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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STETHOSCOPE PROGRAM ROB ROY Date 1 September 1964
 DATA IDENT x m u m c D 222
 for interpretation of this run call P 1 on x 3957

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MONO
COUNT

TOTAL 1100 DITS 0

										HITS OBSERVED	HITS EXPECTED		
a	39												
b	30	IC TESTS FOR SIGNIFICANCE											
c	35	MONO IC 1.0378 SIGMAGE 5.8 1100											
d	23	DIGRAPHIC TESTS											
e	39	DIGRAPH IC 1.061 SIGMAGE 1.8 1099											
f	36	CUT A IC 1.128 SIGMAGE 1.9 550											
g	36	CUT B IC 1.038 SIGMAGE 0.6 549											
h	46	TRIGRAPHIC TESTS											
i	49	TRIGRAPH IC 1.14 SIGMAGE 0.8 1098											
j	58	CUT A IC 1.32 SIGMAGE 0.6 366											
k	27	CUT B IC 1.58 SIGMAGE 1.1 366											
l	37	CUT C IC 1.84 SIGMAGE 1.6 366											
m	44	LOCAL ROUGHNESS OFFSETS 1 TO 33											
n	44	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE	OFF	OBS	EXP	SIGMAGE
o	54	1	42	44	-0.3	12	42	44	-0.2	23	30	43	-2.0
p	45	2	39	44	-0.8	13	42	43	-0.2	24	61	43	2.8
q	36	3	41	44	-0.4	14	38	43	-0.8	25	42	43	-0.2
r	45	4	35	44	-1.4	15	43	43	-0.1	26	37	43	-0.9
s	45	5	39	44	-0.7	16	31	43	-1.9	27	35	43	-1.2
t	51	6	55	44	1.7	17	45	43	0.3	28	49	43	1.0
u	58	7	53	44	1.4	18	37	43	-1.0	29	41	43	-0.3
v	59	8	30	44	-2.1	19	41	43	-0.3	30	46	43	0.5
w	60	9	55	44	1.8	20	53	43	1.5	31	38	43	-0.7
x	48	10	46	44	0.4	21	43	43	0.0	32	52	43	1.4
y	26	11	42	44	-0.2	22	46	43	0.4	33	42	43	-0.1
z	30	WIDTH TESTS 2 TO 51 INCLUDING NO. OF COMPARISONS FOR EACH W											

	W	HITS	COMPS	AVG IC	SIGMAGE	W	HITS	COMPS	AVG IC	SIGMAGE
2	12044	301950	1.037	-0.11	27	886	21860	1.054	0.48	
3	8143	201117	1.053	1.35	28	879	21060	1.085	1.36	
4	6045	150700	1.043	0.39	29	790	20313	1.011	-0.78	
5	4755	120450	1.026	-0.83	30	773	19620	1.024	-0.39	
6	4071	100284	1.055	1.07	31	803	18970	1.101	1.76	
7	3493	85879	1.058	1.18	32	725	18360	1.027	-0.30	
8	3013	75076	1.043	0.28	33	685	17787	1.001	-1.00	
9	2702	66673	1.054	0.83	34	692	17248	1.043	0.13	
10	2366	59950	1.026	-0.59	35	660	16740	1.025	-0.34	
11	2097	54450	1.001	-1.74	36	649	16260	1.038	0.00	
12	2050	49868	1.069	1.40	37	584	15805	0.961	-1.93	
13	1773	45990	1.002	-1.55	38	606	15372	1.025	-0.33	
14	1730	42666	1.054	0.66	39	601	14966	1.044	0.14	
15	1567	39785	1.024	-0.56	40	597	14580	1.065	0.65	
16	1444	37264	1.008	-1.17	41	575	14209	1.052	0.34	
17	1378	35040	1.022	-0.59	42	562	13858	1.054	0.38	
18	1326	33062	1.043	0.18	43	537	13525	1.032	-0.14	
19	1208	31293	1.004	-1.19	44	508	13200	1.001	-0.85	
20	1189	29700	1.041	0.10	45	513	12900	1.034	-0.09	
21	1148	28262	1.056	0.61	46	507	12604	1.046	0.18	
22	1022	26950	0.986	-1.72	47	458	12328	0.966	-1.58	
23	996	25756	1.005	-1.06	48	457	12056	0.986	-1.14	
24	1014	24660	1.069	0.96	49	507	11803	1.117	1.74	
25	906	23650	0.996	-1.30	50	425	11550	0.957	-1.78	
26	875	22722	1.001	-1.11	51	469	11319	1.077	0.82	

POLYGRAPHIC HITS AND IC

LENGTH	TOTAL	OBSERVED	EXPECTED	IC	SIGMAGE
4	1097	3	1.31	2.28	1.5
5	1096	1	0.06	19.80	4.2

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STETHOSCOPE PROGRAM

PAGE 2

LIST OF HITS OF LENGTH 4 OR LONGER

LENGTH	POSITION	OFFSET	REPEATED TEXT
4	715	256	c v e r
5	119	924	e y d n u

THE REMAINING PORTION OF THIS TAPE CONTAINS THE DELTA STREAM FOR THE ABOVE DATA, PRECEDED BY THE CORRECT PARAMETERS AND CALL-UP PROCEDURE FOR RUNNING THE DELTA STREAM ON THE STETHOSCOPE PROGRAM.

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