

Kalshy

CHERRY PIE LAYOUT

FOR STRETCH

copy of old
1955 Study

FOUR MEMORIES

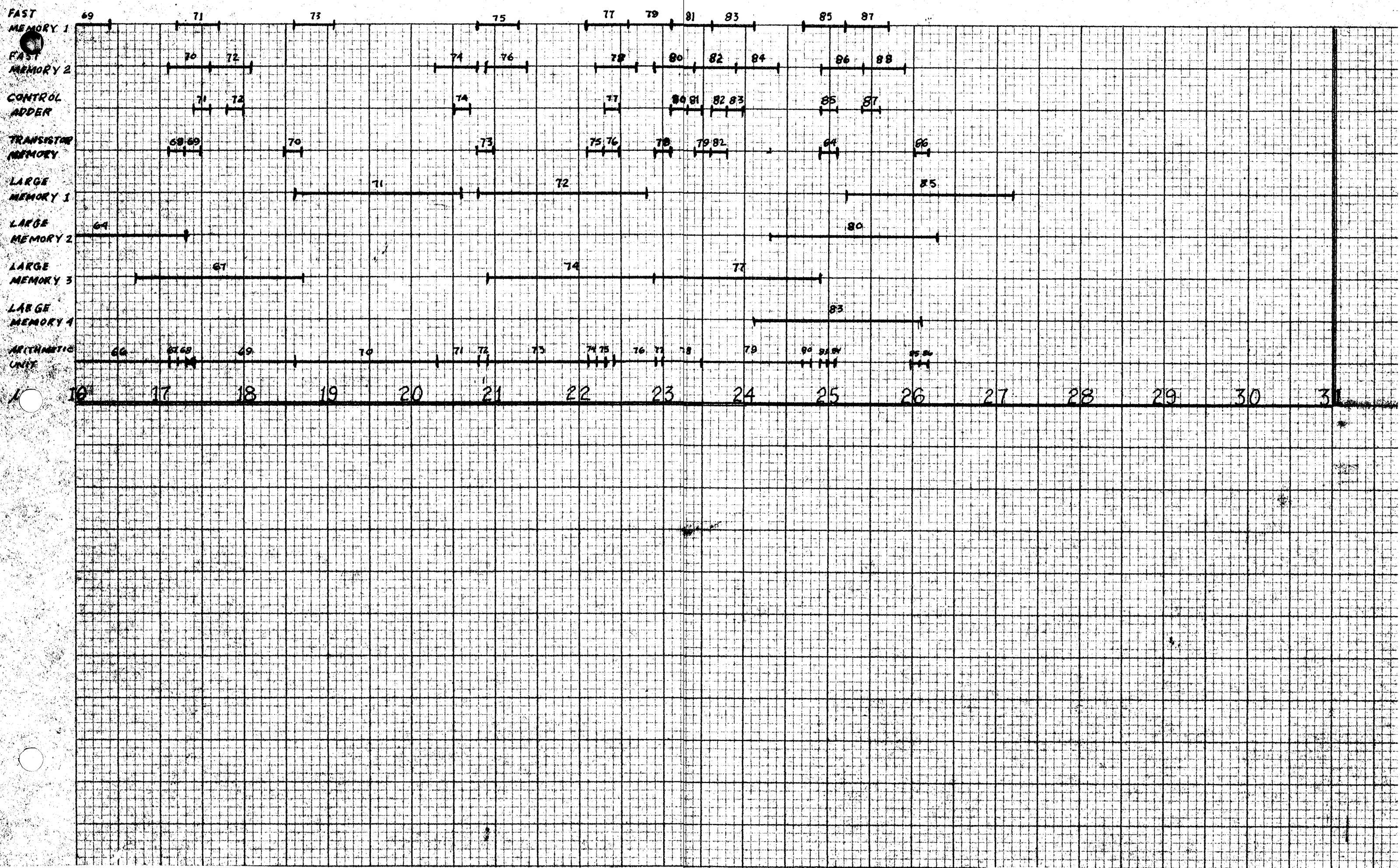
	<u>i</u> →	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
F	1 ?	2	3	4	1
r ⁿ	2	3	4	1	2
z ⁿ	3	4	1	2	3
u	4	1	2	3	4
w	1	2	3	4	1
z ^{n+1/2}	2	3	4	1	2
r ^{n+1/2}	3	4	1	2	3
p ⁿ	4	1	2	3	4
p ^{n+1/2}	1	2	3	4	1
E	2	3	4	1	2
CONST.	3	4	1	2	3
i ₁ L ₂	4	1	2	3	4
L ₃ L ₄	1	2	3	4	1

INSTR #	INDEX	OPER CODE	TRANSFER OPERATION	ARITH. OPER.	REMARKS
1		45	LOAD CA		i = 1 SET INDEX
2	1	2	MM ₂ → L		P ₁
3		45	LOAD CA		i = 3 SET INDEX
4	1	9	MM ₄ → L	F-	P ₁₃ SUB
5		6	L → FM		STORE P ₁₃ (P ₁ - P ₃) STORED
6		45	LOAD CA		i = 2 INDEX
7	1	2	MM ₁ → L		Z ₂
8		45	LOAD CA		i = 4 INDEX
9	1	9	MM ₃ → L	F-	Z ₂₄ SUB
10		6	L → FM		STORE Z ₂₄ (Z ₂ - Z ₄) STORED
11		10	FM → L	FX	P ₁₃ Z ₂₄ MPY
12		6	L → FM		STORE P ₁₃ Z ₂₄
13		45	LOAD CA		i = 2 INDEX
14	1	2	MM ₃ → L		P ₂
15		45	LOAD CA		i = 4 INDEX
16	1	9	MM ₁ → L	F-	P ₂₄ P ₂ - P ₄
17		6	L → FM		STORE P ₂₄
18		45	LOAD CA		i = 1
19	1	2	MM ₄ → L		Z ₁
20		45	LOAD CA		i = 3
21	1	9	MM ₂ → L	F-	Z ₁₃ Z ₁ - Z ₃
22		6	L → FM		STORE Z ₁₃
23		10	FM → L	FX	P ₂₄ Z ₁₃
24		9	FM → L	F-	P ₁₃ Z ₂₄ - P ₂₄ Z ₁₃
25		6	L → FM		STORE (P ₁₃ Z ₂₄ - P ₂₄ Z ₁₃)
26		45	LOAD CA		i = 1
27	1	2	MM ₃ → L		P ₁
28		45	LOAD CA		i = 3
29	1	9	MM ₁ → L	F-	P ₁₃

INSTR. #	INDEX	OPER. CODE	TRANSFER OPERATION	ARITH. OPER.	REMARKS
30		6	L → FM		STORE r_3
31		10	FM → L	Fx	$P_{24} r_3$
32		6	L → FM		STORE $P_{24} r_3$
33		45	LOAD CA		$i = 2$
34	1	2	$MM_4 \rightarrow L$		r_2
35		45	LOAD CA		$i = 4$
36	1	9	$MM_2 \rightarrow K$	F-	r_{24}
37		6	L → FM		STORE r_{24}
38		10	FM → L	Fx	$r_3 r_{24}$
39		9	FM → L	F-	$P_{24} r_3 - r_3 r_{24}$
40		6	L → FM		STORE $(P_{24} r_3 - r_3 r_{24})$
41		2	FM → L		
42		10	FM → L	Fx	$r_3 \int_{24}$
43		6	L → FM		STORE $r_3 \int_{24}$
44		2	FM → L		
45		10	FM → L	Fx	$r_{24} \int_{13}$
46		9	FM → L	F-	$r_3 \int_{24} - r_{24} \int_{13} = \Delta$
47		6	L → FM		STORE Δ
48		2	FM → L		
49		11	FM → L	F÷	$\frac{\partial P}{\partial \int}$
50		6	L → FM		STORE $\frac{\partial P}{\partial \int}$
51		2	FM → L		
52		11	FM → L	F÷	$\frac{\partial P}{\partial r}$
53		10	FM → L	Fx	$\frac{\partial P}{\partial r} \Delta t$
54		45	LOAD CA		$i = 0$
55	1	1	$MM_4 \rightarrow K$		P^n
56		5	K → FM		STORE P^n
57		11	FM → L	F÷	$\frac{1}{P} \frac{\partial P}{\partial r} \Delta t$
58	1	9	$MM_4 \rightarrow L$	F-	$U^{n+1/2}$
59	1	6	L → MM_4		STORE $U^{n+1/2}$

INSTR. #	INDEX	OPER. CODE	TRANSFER OPERATION	ARITH. OPER.	REMARKS
60		10	FM → L	FX	$u^{n+1/2} \Delta t$
61	1	1	MM ₂ → K		r^n
62		5	K → FM		STORE r^n
63		8	FM → L	F+	
64	1	6	L → MM ₂		STORE r^{n+1}
65		8	FM → L	F+	$r^n + r^{n+1}$
66		10	FM → L	FX	$\frac{1}{2}(r^n + r^{n+1}) = r^{n+1/2}$
67	1	6	L → MM ₃		STORE $r^{n+1/2}$
68		2	FM → L		
69		10	FM → L	FX	$\frac{\partial P}{\partial z} \Delta t$
70		11	FM → L	F÷	$\frac{1}{z} \frac{\partial P}{\partial z} \Delta t$
71	1	9	MM ₁ →	F-	$w^{n+1/2}$
72	1	6	L → MM ₁		STORE $w^{n+1/2}$
73		10	FM → L	FX	$w \Delta t$
74	1	1	MM ₃ → K		
75		5	K → FM		STORE z^n
76		8	FM → L	F+	z^{n+1}
77	1	6	L → MM ₃		STORE z^{n+1}
78		8	FM → L	F+	$z^n + z^{n+1}$
79		10	FM → L	FX	$\frac{1}{2}(z^n + z^{n+1}) = z^{n+1/2}$
80	1	6	L → MM ₂		STORE $z^{n+1/2}$
81		46	C ADD	+	
82		79	STORE CA		
83	1	1	MM ₄ → K		
84		5	K → FM		
85	1	1	MM ₁ → K		
86		5	K → FM		
87		47	C SUBTRACT		
88		52	TR +		RETURN
89		51	TR		EXIT

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WEIGHT OF PAPER, STAT. COLOR, GRADE OR TYPE, TRIM, FINISH
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TIME CHART - CHERRY PIE

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