TO:	Multics Performance Log
FROM:	R. J. Feiertag DATE: 3/10/69
SUBJECT:	Multics System Performance Certification Record
I Var	iable settings: operating system
•	System being certified: 2.1
	Certifier used: Multics-test-d Script used: Cert1
•	Number of processes used: 4
	Typewriter output: Yes X No Number of lines output: 664
	System Segment Table Size: 12288
	Number of permanently wired pages:
•	Maximum number of processes eligible for multiprogramming: 2
	Maximum number of processes which may be loaded: 2
	Scheduling Quanta, starting with highest-priority queue:
	1. <u>8</u> 2. <u>8</u> 3. <u>8</u> 4. <u>8</u> 5. <u>6</u> .
II Hard	lware configuration
	Amount of Core Memory: 256K
	Number of processors: 1
	Firehose Drum: Yes X No
	Disk Yes X No
•	Installation used: MAC
	Date of Certification run: March 8, 1969
	Time of Certification run: 21:13 EST

III Other factors expected to influence measurements:

Certification of System: 2.1

IV Measurements

a.	CPU time breakdown	during process creation	during command sequence	total
	1. Time used by subject processes		528.4 sec.	COLAI
	2. Time spent loading processes			
	3. Time spent in file system daemon			
	4. Idle time due to eligibility control		2105.1	
	5. Idle time during page waits			•
	6. True idle time			
	Total CPU time charge	ed.	633.5	

b. Breakdown of CPU times used by subject processes

		Jeer brocease	8	
1.	Missing-page fault time	40.1 sec.	203.3	243.4
2.	Missing-segment fault time	15.6	14.8	30.4
3.	Linkage fault time	62.1	33.9	96.0
4.	Wall crossing fault time	6.7	25.4	32.1
5.	Interrupt handling time	0.5	4.1	4.6
6.	Non-fault time			
			246.9	
	Total		528.4	

Certification of System:

c. Fault times and number

Process Creation	missing page	missing segment	Linkage	wall crossing	Interrupt
average fault time	16.2 ms	45.2	68.4	2.9	1.1
number of faults	2480	344	908	2314	444
command sequence					

average fault time	15.4 ms	84.7	45.4	2.9	2.2
number of faults	13219	175	748	8748	1833
•					

d. Average times seen by a process

1. Average real time for completion of a process:

607.7 sec.

2. Average process creation time:

3. Average time for execution of command sequence:

132.1 sec.

4. Time for CTSS to execute same command sequence.

37.6 sec.

5. Performance relative to CTSS (#4/#3)

.28

Output of original run may be found in file labeled:

. VI Comments: