TO:	Multics Performance Log DATE: 3/12/69
FROM:	R.J. Feiertag
SUBJECT:	Multics System Performance Certification Record

I <u>V</u> ar	iable settings: operating system
	System being certified: 2.3
	Certifier used: multics_test_d
	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 Har	dware configuration
	A
	Number of processors: 1
	Firehose Drum: Yes X No
	Disk Yes X No
-	Installation used: MAC
	Date of Certification run: March 12, 1969
	Time of Certification run: 5:08 est
	J.00 est

III Other factors expected to influence measurements:

Certification of System: 2.3

IV <u>Measurements</u>

а.	CPU time breakdown	during process creation	during command sequence	total
	1. Time used by subject processes		442.7 sec.	
	2. Time spent loading processes			
	3. Time spent in file system daemon		97.0	
	 Idle time due to eligibility control 			
	5. Idle time during page waits			
	6. True idle time			
	Total CPU time charge	d	539.7	

b. Breakdown of CPU times used by subject processes

 Missing-page fault time 	50.3 sec.	154.5	204.8
Missing-segment fault time	14.5	1 4. 7	29.2
3. Linkage fault time	62.7	33.8	96.5
4. Wall crossing fault time	10.3	12.8	23.1
Interrupt handling time	1.1	14.3	15.4
6. Non-fault time		212.6	
Total		442.7	

Certification of System: 2.3

c. Fault times and number

Process Creation	missing page	missing segment	Linkage	wall crossing	Interrupt
average fault time	16.3 ms.	44.2	77.6	2.9	2.1
number of faults	3077	328	808	3562	542
command					

sequence

average fault time	12.6 ms	85.0	46.4	3.0	7.5
number of faults	12295	173	728	4320	1893

d. Average times seen by a process

1. Average real time for completion of a process:

526.1 sec.

- 2. Average process creation time:
- 3. Average time for execution of command sequence:

110.8 sec.

4. Time for CTSS to execute same command sequence.

37.6 sec.

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

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V Output of original run may be found in file labeled:

VI Comments: