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from the office of

March 31, 1970

TO: Multics Administrative Distribution
 FROM: J. H. Saltzer
 SUBJECT: PDP-8 Script Performance Comparison between CTSS and
 Multics System 7.0, 4.0, and 3.0.11

All figures are for two passes through the standard "Fortran debugging" script.

Average load while measuring	Multics 3.0.11 6/25/69 12 users	Multics 4.0 9/25/69 24 users	Multics 7.0 3/30/70 21 users	CTSS 8/1/69 17 users
CPU Time charged	87.9 sec.	50.3	28.7	70.97 sec.
Real time required	2702 sec.	2520	2298	2434 sec.
CPU time per interaction	1.91 sec.	.79	.436	1.07 sec.
Average response time	~18 sec.	12.4	5.2	5+1 sec.
Dollar charge	\$11.01	\$6.55	\$3.99	\$6.50
Cost per console hour	\$14.70/hr.	\$9.10/hr.	\$6.27/hr.	\$9.62/hr.

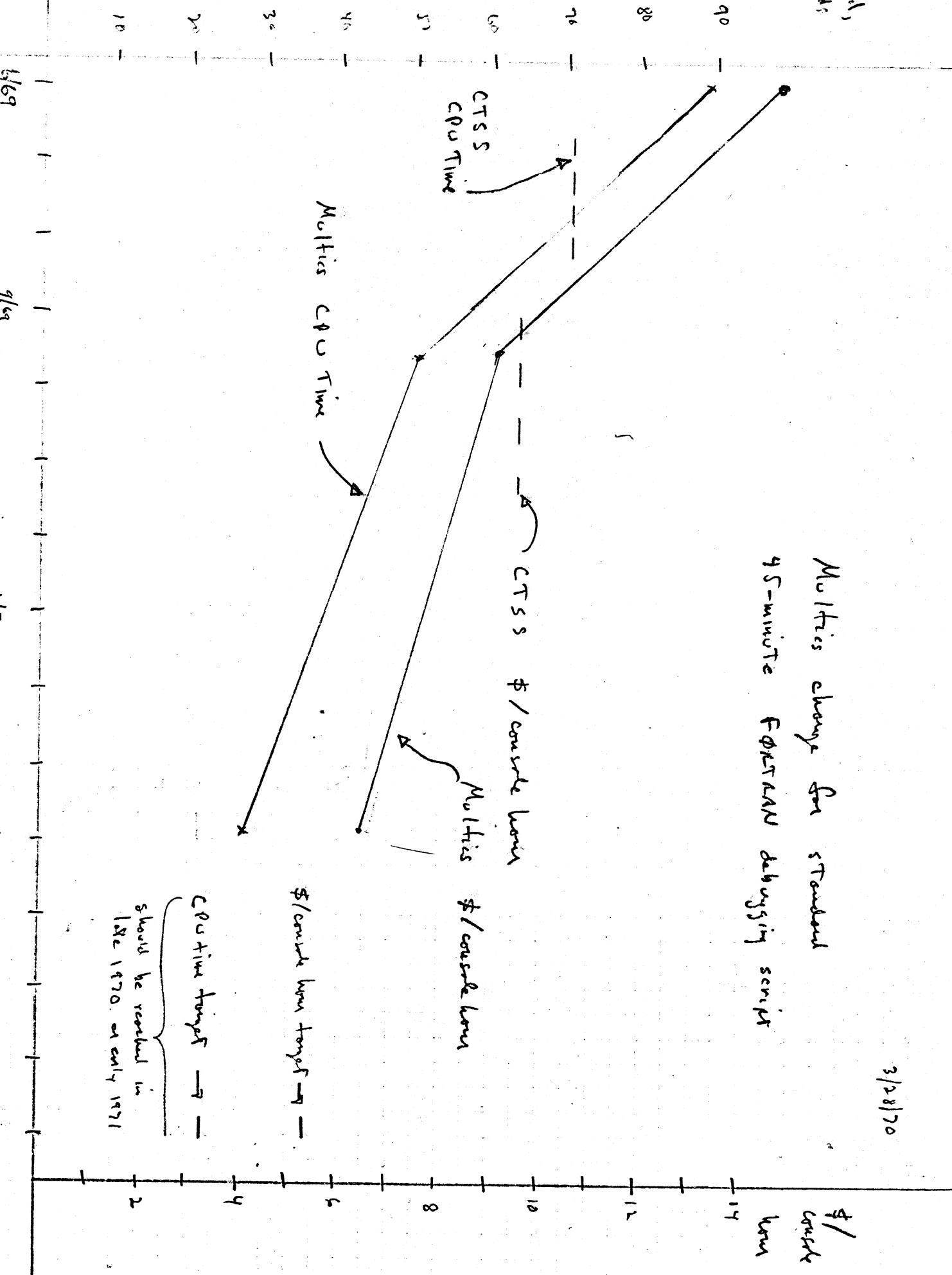
1. All prices are based on a Multics CPU charge of \$420/hr, a Multics dialup charge of \$1/hr, a CTSS CPU charge of \$330/hr, and no CTSS dialup charge.
2. Note that this script is, on balance, a smaller than average user of core memory, and is unfavorably charged by a Multics CPU price based on average core memory usage.

3/28/70

CPU
Time
changed,
seconds.

Multics charge for standard
45-minute FORTRAN debugging script

\$/
const
kwh



date →

5/69

9/69

1/70

4/70

4/70

4/70

4/70

8/70

J.W.Saltman

6/68

12/68

6/69

12/69

3/70

12/70

3/25/71

