

March 6, 1969

TO: Multics Performance Log

FROM: J. H. Saltzer

SUBJECT: Multics Performance history as recorded by flush-certification
measurements

The enclosed chart provides a comparison among all Multics systems which have been certified to date. Systems without bars did not get accurately certified.

Included is a prediction, based on system 2.2B, of the effect of installing a file system which is three times faster and smaller than the present file system.

Performance relative to system 1.6

1.0 1.1 1.9 1.8 2.0 5.0

CPU time to run Certifier
 "Multics-Test-B" with 4 processes.
 ("Flush-nothing-etc" script)

600
500
400
300
200
100
Seconds

AST/Page Table
 Coupling
 and
 Multi-Programming
 Control

TW in
 Rim 2010

Predicted
 effect
 New File
 System

1.6 11/21/68
 1.7 11/11/68
~~1.8~~
 1.9 12/10/68
~~2.0~~
~~2.1~~
 1.12 1/7/69
~~2.2~~
 2.1 1/22/69
 2.2 2/7/69
 2.2B

System

