

MPL-31

TO: Multics Performance Log
FROM: R. J. Feiertag
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SUBJECT: Console Session metering statistics

Before each shutdown a command is invoked to print metering results from that console session. Those results correspond to heavy use hours, i.e. daytime during weekdays, have been compiled to produce the following averages. The deviations shown represent the instances of greatest deviation from the average. These results were taken from metering of the past three weeks. The true idle time is due primarily to idle while bringing up and shutting down the system as there is usually no true idle time during normal daytime operation.

Faults per hour

	Number	Max. Deviation (%)
Page	58300	-14
Segment	3200	-41
Linkage	3130	-45
Wall Crossing	28500	- 9
Interrupts	102200	- 6

Average fault times per fault

	Time (ms)	Max. Deviation (%)
Page	7.7	+5
Segment	22.6	-6
Linkage	34.8	+3
Wall Crossing	1.5	+13
Interrupts	1.1	+18

Fault times per hour

	Time (min)
Page	7.5
Segment	1.3
Linkage	1.9
Wall Crossing	0.8
Interrupts	1.9

Miscellaneous times per hour

	Time (min)	Max. Deviation (%)
Total idle	20.8	-19
Eligibility idle	15.2	+21
True idle	3.1	+135
TS daemon	2.2	+122
Loader daemon	0.7	+28
AST grace	87 sec.	+75% max. deviation
Average steps	4	

Disk and drum interactions per hour

	Number	Max. deviation
Drum reads	60700	+ 9
Drum writes	32600	+14
Disk reads	4700	-16
Disk writes	2620	+35

Ten most used ring 0 segments

1. bound_page_control (most used)
2. pxss
3. switch_stack
4. master_pxss
5. fim
6. bound_sc_linker
7. bound_utility
8. wired_sup_linkage
9. master_mode_ut
10. bound_tc_wired