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## Multics defects: (from Cobalt as a "user")

1. Login takes too long in real-time — may clear up w/ minishell
2. Too many messages at login
3. login ready times incorrect — may clear up w/ minishell
4. ~~too~~ too much delay before WAIT msg — will clear up w/ minishell
5. "who" + ~~the~~ Multics in op. msg give wrong count of users; no system start time
6. ~~the~~ "who" doesn't give any measure of CPU time being used by users.
7. "fsm" doesn't start out with good total time
8. "fsm" doesn't include meters for i/o buffers
9. " " " " for ~~top~~ commands ~~if~~ finished on 1st crack
10. "listf" doesn't give total # of blocks being used by ~~any~~ directory
11. no way to see "map" of whole file system.
12. probe: seg info still has  $\gg$  convention; can't trace back from quit
13. too many segments in process directory (15)
14. ~~the~~ "remove not yet delete"
15. Stack\_01 doesn't recede from a high water mark, ties up drum
16. can't rename entry pt on a link e.g. ~~remove~~ delete for remove
17. most commands do not use tabs enough.
18. no message given when bumped or auto logout given
19. x5902 or x5903 ??; x201 not updated over weekend
20. need fsm-like command for all key parameters of seg e.g. Q, #levels, ast size, ...
21. garbage files left in process directory
22. fortune: compiler has bugs <sup>eg pop!</sup> ~~in~~ ~~the~~ ~~code~~, ~~for~~ ~~access~~ ~~nodes~~, ~~49~~ ~~that~~ ~~stuck~~ ??
23. Clock on wait message turns ~~off~~ over 2400 slowly