

Subject: Disable fullfilereadahead in AMASS 4.12.4 or earlier
The following directive is issued to all DAACS and labs.

28-Feb-01

Issue: ADIC has issued an alert pertaining to all versions of AMASS previous to AMASS 4.13, which includes all ECS systems. Bad data can be retrieved from tape on a media error if readahead or fullfilereadahead are enabled. In ECS, readahead is normally disabled but fullfilereadahead is enabled. Note that this problem is reportedly fixed in AMASS 5.0.

Fix: Run /usr/amass/scripts/installamass and change the fullfilereadahead and readahead parameters to 0 to disable it. Then /usr/amass/sys/configprod -o must be executed followed by a reboot. An experienced AMASS administrator should accomplish this procedure where possible or obtain assistance from ECS Systems Engineering at Landover (call POC listed below).
Approximate time to implement: 30 minutes including reboot per AMASS instance.

Testing: View the /usr/amass/scripts/amassconfig file and verify that:
vlk_fullfilerdahead = 0
If the value is 0, fullfilereadahead is disabled and nothing need be done.
If the value is 1, fullfilereadahead is enabled and must be disabled.

Implementation: On each AMASS instance:

1. Login to the SGI as root.
2. Quies the system.
3. Shutdown amass using the command:
/usr/amass/tools/killdaemons
4. Update the configuration using the command:
/usr/amass/sys/config_prod -o
5. Take the default values by pressing “ ” until the entry and respond with 0:
Enter FULLFILEREADAHEAD (1 to enable, 0 to disable)
(press return to accept default = 1, or enter number)
0
6. Disable readahead at the next line:
Enter READAHEAD (1 to enable, 0 to disable)
(press return to accept default = 1, or enter number)
0
7. For the system configurable parameters, enable CFG_OPT_AIO and CFG_OPT_SIO and accept the default of disabled on CFG_OPT_INTERLEAVE.
8. Reboot

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-----End of Directive-----