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MAE: How To Enhance Performance (8/94)

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TOPIC -----

Are there some things about installing MAE that might help performance? I loaded the MAE demo version on my Sparcstation 20 this morning. My first impression of the software is that it's a very slow emulator, for example window and menu operations are sluggish. I may not have everything set up correctly for the Sparcstation and/or MAE. The Sparcstation has 64 MB of RAM and 2 GB of disk space. MAE was set for 20 MB of RAM. MultiSpec was set for 3 MB of RAM.

Following are the timing comparisons for a 2-class, 7-channel classification of 28,561 pixels. This was done using the non-coprocessor version of the MultiSpec application since the 68881 is not emulated.

Sparcstation 20/MAE	2400 seconds.
Macintosh IIfx	161 seconds.
Macintosh IIfx using 68881	15 seconds.
Power Macintosh 8100 native mode	2 seconds.

DISCUSSION -----

We think the following settings should speed your MAE graphics performance to about Macintosh IIfx speeds. These settings are for a Sun workstation running Solaris 2.3. We suggest as Root user adjusting the file "/etc/system" to include the following:

Note: These are merely suggestions, you should take your specific environment into consideration as well.

```
set maxusers=# (# = a numerical value i.e. 20, 32, and so on)
set shmsys:shminfo_shmmax=8388608
set shmsys:shminfo_shmmin=1
set shmsys:shminfo_shmmni=200
set shmsys:shminfo_shmseg=12
```

We are assuming your System Folder and other files and directories are NOT on remote NFS disk space/mount points.

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