

Upgrading AViiON[®] Flash PROM (Intel and 88K)

014-002734-01

This document describes how to “flash” the Programmable Read-Only Memory (PROM) in AViiON systems. The upgrade utility takes only a few minutes to erase configuration data stored in PROM, and then replace it with new data. Allow plenty of time to complete the upgrade, however, since the procedure involves bringing down your operating system, running the utility, and then powering the entire system down and back up.

Upgrading your PROM is a simple, straightforward procedure that requires no special expertise. Note, however, that the flash utility provides on-line options and background information originally designed and intended for highly trained system engineers; we strongly recommend that you do not deviate from the prescribed default procedures provided below.

If you have questions concerning the upgrade process or procedures, contact your Data General Customer Service Center for assistance. In the United States and Canada, call 1-800-DG-HELPS.

CAUTION ***Do not cycle power or attempt to reset during the flash process.** Even a momentary loss of power while the utility is running can leave your system PROM erased, or with partial or conflicting information. Often the only remedy for PROM failure is actually replacing the part. Make certain your power supply and connections are reliable before you begin. You cannot back up or halt the upgrade.*

Follow these steps to upgrade your AViiON system PROM.

1. Bring your system to the SCM> prompt. You can enter the SCM during powerup, as described in your Operating manual, or you can force an orderly DG/UX[®] system shutdown by executing the **init 5** command.
2. Insert the FlashProm tape or CD-ROM in the appropriate drive, and boot it. If necessary, refer to your DG/UX and/or Operating manual(s) for your flash device boot path. The boot command for a typical AViiON tape drive with the SCSI default ID of 4 follows:

```
SCM>b st(cisc0,4)↵
```

NOTE: Other systems replace the **(cisc0)** device driver mnemonic with **(insc0)**, **(ncsc0)**, **(apsc0)**, **(qpsc0)** or **(dgsc0)**, depending on your SCSI controller type.

3. Once booted, the utility displays a copyright notice and warning on your screen, and asks if you need help. Answer **NO**:

```
***Need Help? (y or n)? n ↵
```

4. When the utility asks if you wish to continue, answer **YES**:

```
***Do you wish to continue the update (y or n)? y ↵
```

5. Answer **NO** to the verify mode option:

```
***Verify only mode (y or n)? n ↵
```

6. If the utility displays a message indicating that your system was previously upgraded to the latest PROM level,

```
***Prom already contains correct data***
***Do you wish to program anyway (y or n)?
```

contact Data General for assistance, or answer **YES** to continue the upgrade.

7. The utility displays a message indicating that the upgrade will begin in ten seconds. Despite the screen display (and since some AViiON systems do not have an easily accessible reset switch), *do not attempt to reset the system or halt the upgrade!*

Once the upgrade begins, the utility displays messages that indicate the PROM device type, and the current activity and status of the upgrade. When it completes writing and verifying the new data, a message similar to the following appears on your console screen:

```
***Flash Prom Update Completed Successfully!***
***Please Cycle Power Off and ON***
***BBSRAM failure 20000200, may occur during next power up***
***testing. If it does, cycle power off and on again, then the***
***power-up testing should pass.***
```

8. Power cycle your system (turn power off, wait at least 60 seconds, then turn power back on.) If you encounter a BBSRAM error, cycle power again.

The following is a list of Firmware releases and the systems they cover.

SYSTEM SERIES LABEL	SERIES INCLUDED	MEDIA TYPES
AV 6240	AV 5240/6240, AV 7000/8000	079-000249-10 (QIC tape)
AV 4300	AV 4300/4320	079-000114-08 (150 Mbyte QIC tape)
AV 6220/6225	AV 5000/6000, AV 5100/6100, AV 5200/6200, AV 5220/6220, AV 5225/6225	079-000377-12 (QIC tape)
AV 46XX	AV 530/4600/4620	079-000341-08 (150 Mbyte QIC tape)
AV 4700/4800/5800	AV 4700/4800/5800	090-007728-04 (diskette)
AViiON 500 SYSTEMS	AV 500	079-000525-03 (QIC tape)
AV 550/5500	AV 450/550/450H/550H/4500/5500 AV 4500H/5500H	079-000478-15 (QIC tape) 068-003056-15 (CD-ROM)
AV 7400/8400	AV 7400/8400	079-000466-08 (QIC tape)
AV 10000	AV 10000	079-000197-04 (QIC tape)
AV 8500/9500/9500+	AV 8500/9500/9500 Plus	079-000477-17 (QIC tape) 068-003055-17 (CD-ROM)
AV 6280/8000-8	AV 6280/8000-8	079-000408-07 (150 Mbyte QIC tape)

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