



READ ME FIRST

4575/5575/6575 Solaris ATM AAL API Driver

Read This Before You Begin!

Description

This README file describes the features of the Solaris ATM AAL API driver. The driver supports the following operating systems.

Table 1.

		Part-Version
System	OS Version	Number
Solaris Sparc PCI	2.6, 2.7, 2.8	SX00498-A05

This file should be read carefully before the software is installed on your system.

This software allows transmission and reception of AAL frames from the application space. Opening, closing and setting the parameters of each ATM connection is done through a well defined API. A separate Stream and a unique UNIX file descriptor is associated with each connection. The AAL frames are transmitted and received by calling the standard UNIX system calls. The hardware driver in this package is not a DLPI driver and is not designed to work with the networking protocols in the system, such as TCP/IP.

The features and limitations of this driver are as follows:

- Supports multiple VPIs
- UBR service category is supported
- AAL5 adaptation layer is supported
- OC3, DS3 and E3 physical layers are supported
- Multiple adapters in a system are supported
- The driver supports multi-processor systems
- Only 4K VC and 1M buffer memory adapters are supported

Changes/Additions

There have been some changes made to the atmconf file that allow the user to configure new parameters for the driver. Full explanations are detailed in the supplied atmconf file.

Parameters bq_timer_value and bq_watermark have to do with the operation of the new backlog queue.

Parameters str_blk_size, str_hiwat and str_lowat are used to manipulate streamhead values for opened connections.

There have been two new API added to the library. An API for getting receive and transmit counts for a given connection and an API for setting the streamhead parameters. Reference the online man pages loaded with the driver.

Before You Start

If an Interphase ATM driver is already installed on your system, it should be removed before the new driver is installed. You may want to save off the /etc/atmconf.x file as a reference.

Installation

The 4575/5575/6575 Solaris AAL5 ATM driver is installed with the pkgadd utility. Change directory to the directory containing the driver. enter

```
pkgadd -d ./SX00498-A05 INPHatm
```

and follow the instructions as they appear on the console.

Configuration

Configure the adapters by editing /etc/atm/atmconf.<n>. Where <n> is the adapter number. There is a separate configuration file for each adapter. This file contains adapter tunable parameters such as the number of VPs to enable and number of VCs to enable for each VP. See on-line man pages adapter(1m) and atmconf(4) for more details.

Using the API Library

The API library contains entry points to open connections, set properties of the connections (such as the PCR), close connections, etc. A unique UNIX file descriptor is assigned to each connection. After a connection is open, the AAL frames can be transmitted and received using the standard UNIX system calls to transmit and receive data.

The API entry points are listed and described in the on-line man page `aalapi(3c)`. The API library (`libaal.so`) should be linked with the application(s) to use the AAL API.

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