Introduction [1]

Asynchronous Transfer Mode (ATM) is a network technology
that allows voice, data, and video transmission across a single
medium. ATM technology offers a universal network connection
for supercomputers, and also enables new applications for
multimedia user interfaces, geographic independence of
client-server resources, and ease of relocatable network modes.

Because off-the-shelf ATM hardware components do not fit into
traditional Cray Research architectures, Cray Research has
developed an external network adapter, a Bus Based Gateway
(BBG), for these systems. The ATM interface for the CRAY EL
series is called the Native ATM interface. This system uses a
traditional VME interface for ATM technology. Software support
for BBG technology is included in the UNICOS 9.0 release and
later. Software support for Native ATM technology for the
CRAY EL series is included in the UNICOS 8.0.4A release and
later. Software support for Native ATM technology for the
CRAY J90 series is included in the UNICOS 8.0.4.1 release and
later.

This manual describes the BBG and VME interfaces used with
ATM 1.0 and includes the following sections:

* Network requirements for BBG and VME interfaces
* Installation of BBG and VME interfaces
* Glossary of terms associated with ATM technology

The Cray Research product name *ATM* is derived from and is
used interchangeably with the transmission technology
Asynchronous Transfer Mode.