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BIT 3 COMPUTER CORPORATION

DATA SHEET

MODEL 901/902Q22bus Adaptor VMS Support Software for DEC MicroVAX II

The Bit 3 Q22-bus Adaptor Support Software works with a Bit 3 Model 431 Q22-bus-MULTI-BUS ADAPTOR, Model 432 Q22-bus-VME ADAPTOR and Model 433 Q22-bus-Q22-bus ADAPTOR. The Software enables a MicroVAX VMS user to quickly tailor VMS applications for use with Bit 3 Adaptors.

THE SOFTWARE

- Enables a VMS application to randomly address the other system's global bus memory.
- Enables a VMS application to randomly address Bit 3 Dual Port RAM.
- Enables a memory-to-memory DMA transfer between the memory of the MicroVAX and global bus memory on the other system. The process appears to the VMS application as a DR11 type driver with addressability.
- Assists in the handling of interrupts between the two systems.
- Permits access to the interface library using DEC standard CALLG/CALLS format.

DETAILED DESCRIPTION

The Bit 3 Q22-bus Adaptor Support Software is a licensed and copyrighted program available to purchasers of the Bit 3 Adaptors. The Adaptors are described in separate data sheets. The software is licensed for use with a single Bit 3 Adaptor on a Digital Equipment Corporation MicroVAX II or III running the MicroVAX VMS operating system.

The software package provides the following set of modules which enable the user to utilize a Bit 3 Adaptor set:

- A device driver similar to the DRV11-WA, allowing block data transfers between application data buffers and remote memory or a remote Bit 3 Dual Port RAM memory card. It also allows for registration of interrupts (unsolicited ASTs or Asynchronous System Traps) for use in receiving interrupts from the other system.
- Privileged level routines that set up and delete the system resources utilized by the interface library routines. These can be added to the system startup/shutdown procedures.
- An interface library to map the memory windows and access the Adaptor status and command registers. The application indexes off a pointer (returned by the mapping procedures) to access remote or dual port memory. It calls a procedure each time it needs access to the Adaptor registers.
- An example program demonstrating how an application can:

  *Access remote memory using the Adaptor in direct or paged mode, and check for interface/parity errors.
  *Access Bit 3 Dual Port memory.
  *Use the DMA device driver to write/read information between a data buffer and remote memory or a remote dual port memory.
  *Use the interface library and the device driver to send and receive interrupts.

LICENSING

Model 901/902 is a licensed product. One Model 901/902 is required for each platform in which any portion of the Model 901/902 Support Software product is used.

Licensees planning Q22-bus platform applications that require a number of Model 901/902 licenses may find it helpful and economically beneficial to purchase a one-time, fully paid Embedded Application License. In particular, integrators and OEMs planning a specific application using a Q22-bus platform that includes the executable modules can distribute and/or sell their applications without incurring additional Model 901/902 Support Software licensing fees. Contact Bit 3 for further information on the Embedded License option.

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Specifications subject to change without notice.

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NOTICE

Effective March 15, 1997 Availability of and Support of

Model 901 / 902 VMS Support Software Will Be Discontinued.

Effective Immediately Bit 3 Will Not Provide Upgrades to

Model 901 / 902 Support Software Beyond The Current Version

Compatible With VMS 4 And 5.

Software Upgrade Policy

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