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Overveiw

Models

A6386A

Introduction

The HyperFabric2 PCI Fiber Adapter family of network interconnect products provide high-speed, low-latency solutions for clustering HP-UX Enterprise Server and Workstation systems. The A6386A provides 30% to 50% lower CPU utilization than standard TCP/IP stacks running on traditional network links.
In addition to high performance, HP's Hyperfabric2 driver software has been optimized to ensure low CPU utilization. The standard TCP/IPTCP/IP communications stack has been tuned to reduce the delays normally associated with moving data from network media to the application layer and back down to the media.
Bundled within Hyperfabric2 is HP's patented Hyper Messaging Protocol (HMP), a messaging-based protocol that significantly enhances performance of parallel and technical applications by optimizing the processing of various communication tasks. HMP has received numerous praises within the industry! HMP was jointly developed with Oracle, and the resulting Hyperfabric2 feature set was tuned to enhance the scalability of Oracle's Cache Fusion clustering technology.

Key Benefits

- Dramatically improves performance in Enterprise Resource Planning (ERP), Decision Support Systems (DSS), and technical applications
- Ensures that high availability operations are maintained across the interconnect environment
- Provides a highly scalable growth path without bandwidth constraints
- Increases speed of tape backup operations

Compatibility

HP Workstation zx2000 and HP Workstation
zx6000.

Service and Support

The Hyperfabric2 PCI Fiber Adapter has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day, by phone as well as in online support forms. Certain restrictions and exclusions apply.

Technical Specifications

HyperFabric2 PCI Fiber Adapter	Dimensions (HxWxD)	4.21 x 7.09 x 0.98 in (10.7 x 18.0 x 2.5 cm)	
	Weight	120 g	
	Connectivity	Up to 64 enterprise servers in switched mode. Point-to-point limits are system dependent and equal the maximum number of I/O cards supported	
	PCI	64/32-bit, 66/33MHz	
	Local memory	8MB	
	Link bandwidth	320 + 320 MB/s duplex	
	Max Bandwidth	4.0 Gb/s full duplex for Hyperfabric2	
	Application bandwidth	2.4 Gb/s full duplex	
	Protocol latency	less than 42 µsec (TCP/IP) less than or equal to 22 µsec (MPI ping-pong test)	
	Protocol support	TCP/IP UDP HP HMP (Hyper Messaging Protocol)	
	Operating System Support	HP-UX 11.0 and 11i, 64-bit (requires at least 512 MB system memory per Hyperfabric adapter)	
	High availability	active-active mode in point-to-point configurations redundant switches in switched configurations	
	System Requirements	Available PCI slot (2.1 compliant)	
	Environmental	Operating Temperature	41° to 104° F (+5° to +40° C) recommended operating: 68° to 86° F (+20° to +30° C)
		Operating Humidity	15% to 80% RH at +70° F (+22° C)
		Operating Altitude	3000m (10000ft) max
	Power Requirements	5V PCI power	
	Regulatory Approvals	Fully compliant with EN55024 (1998), EN55022 Class A (1995), VCCI Class A (May 1999), FCC Part 15 Subpart B Class A, CISPR 22/85 Class A, ICES-003 Class A (ANSI C63.4 1992), and AS/NZS 3548 Class A (w/A1 & A2 1997)	

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