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# Bull HN Information Systems, Inc. DPS6000: Product Profile

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**System Overview**

The DPS6000 Models are the latest DPS6 level systems from Bull. Effectively replacing the DPS6 and DPS6 Plus, the DPS6000 is fully compatible with previous systems. Designed for a range of departmental computing applications, the DPS6000 is based on the international Open Systems Interconnection (OSI) standards.

The DPS6000 line comprises Models 200, 210, 220, 400, 410, 620, and 630.

**Vendor**

Groupe Bull  
Technology Park  
Billerica, MA 01821-4199  
(508) 671-6000

**In Canada**

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**Price**

Basic configuration prices range from \$14,000 to \$280,000.

**GSA Schedule**

Yes.

**Competition**

Bull competes with Digital Equipment, IBM, Hewlett-Packard, Data General, and Unisys in the midrange marketplace. Specifically, the DPS6000 competes with Digital's VAX 6000 and IBM's AS/400.

# Characteristics

See Table 1 for a comparison of system characteristics for the DPS6000 Models.

## Specifications

### Main Memory

The DPS6000 has a main memory range from 2M to 64M bytes, expandable in 2M-, 4M-, 8M-, 16M-, and 32M-byte increments. Memory ranges for individual models appear in Table 1.

### Processing Components

Information not available from vendor.

### Peripherals

### Mass Storage

Disk units for the DPS6000 are available in single or packaged systems (the larger ones require expansion cabinets). Packaged disk systems contain two drives and include disk controllers.

See Table 2 for specifications on mass storage devices.

### Tape Drives

The DPS6000 supports two tape drives. A 1/4-inch, 150M-byte cartridge tape runs at 90 ips and has a transfer rate of 112.5K bytes per second. Model MTUA921 is a dual-density 6250/1600 bpi magnetic tape drive which runs at 25/75 ips.

### Terminals/Workstations

Numerous system consoles, workstations, and personal computers are available for each series in the DPS6000 Family.

### Printers

The DPS6000 supports a variety of printers, ranging from 45 to 480 cps, 150 to 1200 lpm, and up to 8 ppm.

## Communications

*Protocols Supported:* HDLC, SDLC, BSC, X.25.

*Network Applications Supported:* SNA, OSI.

*LANS Supported:* 802.3 Ethernet.

## Operating Environment

The DPS6000 models can operate between 50 and 100 degrees Fahrenheit and within a (noncondensing) humidity range of 10 to 90 percent (20 to 80 percent for Series 400 models). The physical and electrical specifications of the DPS6000s are highlighted in the following tables.

**Physical Specifications**

Model	Height	Width	Depth	Weight
200	27.5"	15"	28"	170 lb.
400	30"	20"	30"	300 lb.
410	30"	45"	30"	450 lb.
620	61.5"	24"	41.7"	750 lb.
630	61.5"	48"	41.7"	1,340 lb.

**Electrical Specifications**

Model	Power Consumption (watts)	Heat Dissipation (Btu/hr)	Voltage	Amperage
200	400	1,360	120	15
400	800	2,730	120	20
410	1,085	3,814	230	30
620	5.7K	19K	208-240	36
630	8.4K	29K	208-240	54

## Software

### Operating System

The GCOS 6 High-performance Virtual System (HVS) is the operating system for the DPS6000. GCOS 6 HVS features virtual memory support, automatic disk caching, and an integrated interface to Ethernet LANs.

GCOS 6 HVS is a disk-based, shared-logic operating system that provides multiprogramming and multitasking services. It serves as the platform for the ONE PLUS integrated office processing, transaction processing, and networking software packages.

**Table 1. System Comparison**

Model	Series 2x0	Series 4x0	Series 6x0
<b>System Characteristics</b>			
Min/Max Memory (bytes)	2-32M	8-64M	16-64M
Min/Max Storage (bytes)	142M-1.2G	142M-9.5G	142M-11.9G
Number of Processors	1-2	2-4	1-4
Number of Terminals	—	—	—
Date First Installed	October 1989	October 1989	October 1989
<b>Central Processing Unit &amp; Memory</b>			
Computer Type	32-bit	32-bit	32-bit
Processor Model	—	—	—
Memory Type	MOS	MOS	MOS
Floating Point Co-processor	—	—	—
Cache Memory (bytes)	—	—	64K instruction, 128K data
<b>Performance Characteristics</b>			
Multiprocessing Capability (Y/N)	Y	Y	Y
MIPS	—	—	—
Proc. Clock Speed	—	—	—
I/O Transfer Rate (bytes/sec)	13.3M	13.3M	13.3M
<b>Purchase Price</b>			
(basic configuration)	\$14,000 to \$37,000	\$33,000 to \$67,000	\$90,000 to \$280,000
Memory/Storage Included (bytes)	2M	8M	16M

Note: A dash (—) in a column indicates that the information is unavailable from the vendor.

An Extended Capability Processor (XCP) is available as an option for the Series 4x0 and 6x0 to allow access to UNIX applications. When so configured, GCOS 6 HVS and UNIX run simultaneously as peers.

#### Communications

The DPS6000 supports communications and networking program products using protocols such as SNA/SDLC, BSC, asynchronous terminal emulation, and Open Systems Interconnection (OSI) communications.

#### Other Software

Industry-standard languages including Cobol, Ada, Fortran, Pascal, C, Basic, and Assembler are available for the DPS6000.

#### Sample Configuration Pricing

Sample DPS6000 configurations and prices are outlined in the following tables.

#### Entry Level System: Model 200

Description	Product ID	Price (\$)
CPU	CPXA201-701	14,000
Main Memory	2MB	Included
Console	HDS7505-002	995
I/O Ports	5 ports	Included
Disk Controller	Integrated	Included
Disk Drive	68MB drive	Included
Tape Controller	Integrated	Included
Tape Drive	150MB drive	Included
Workstation Controller	Integrated	Included
Printer	200/40 cps, PRU7180	795
Workstation Display	HDS7505-002	995
Total Hardware		16,785
Monthly Maintenance		117.42
Operating System	SHS2081A-100	Included
Languages	Cobol	1,260
DBMS	DM6 IDS/II	1,699
Total		19,744

**Table 2. Mass Storage Devices**

Model	MSU9203	MSU9204	MSU9205	MSUA931	MSUA951
Size (inches)	5¼	5¼	5¼	—	—
Formatted capacity (bytes)	68M	142M	300M	295M	595M
Interface/controller	—	—	—	MXC-32F	MSC908
Average access time (ms.)	43.3	26.3	26.3	—	—
Data transfer rate (bytes/second)	625K	1.25M	1.25M	—	—
Purchase Price	\$8,000	\$5,000	\$7,000	\$13,000	\$18,500

Note: A dash (—) in a column indicates that the information is unavailable from the vendor.

Intermediate Level System: Model 410		
Description	Product ID	Price (\$)
CPU	Dual CPXA412-701	57,000
Main Memory	8MB	Included
Console	HDS7505-002	995
I/O Ports	16 ports	Included
Disk Controller	MSSA931-001	21,000
Disk Drive	Two 295MB drives	Included
Tape Controller	MTM9901	2,000
Tape Drive	MTUA921	17,900
Workstation Controller	CPF9960	Included
Printer	325 lpm, PRUA910-701	8,700
Workstation Display	HDS7505-002	15 @ 995 = 14,925
Total Hardware		122,520
Monthly Maintenance		594.50
Operating System	SHS2083A-100	Included
Languages	Cobol	3,780
	Basic	3,780
DBMS	DM6 IDS/II	5,098
Total		135,178

Large System: Model 620		
Description	Product ID	Price (\$)
CPU	CPXA622-701	155,000
Main Memory	32MB	Included
Console	HDS7505-002	995
I/O Ports	16 ports	Included
Disk Controller	MSSA951-001	32,000
Disk Drive	1.2GB	Included
Tape Controller	MTM9901	2,000
Tape Drive	MTUA921	17,900
Workstation Controller	DCSA901-001	2 @ 4,000 = 8,000
Printer	650 lpm, PRUA912-701	11,900
Workstation Display	HDS7505-002	47 @ 995 = 46,765
Total Hardware		274,560
Monthly Maintenance		1,291.42
Operating System	SHS2085A-100	Included
Languages	Cobol, Basic,	4 @ 6,300 = 25,200
	Pascal, Fortran	
DBMS	DM6 IDS/II	15,736
Total		315,496