

# HEWLETT-PACKARD

## HP 3000 Computer Systems

### Series 70

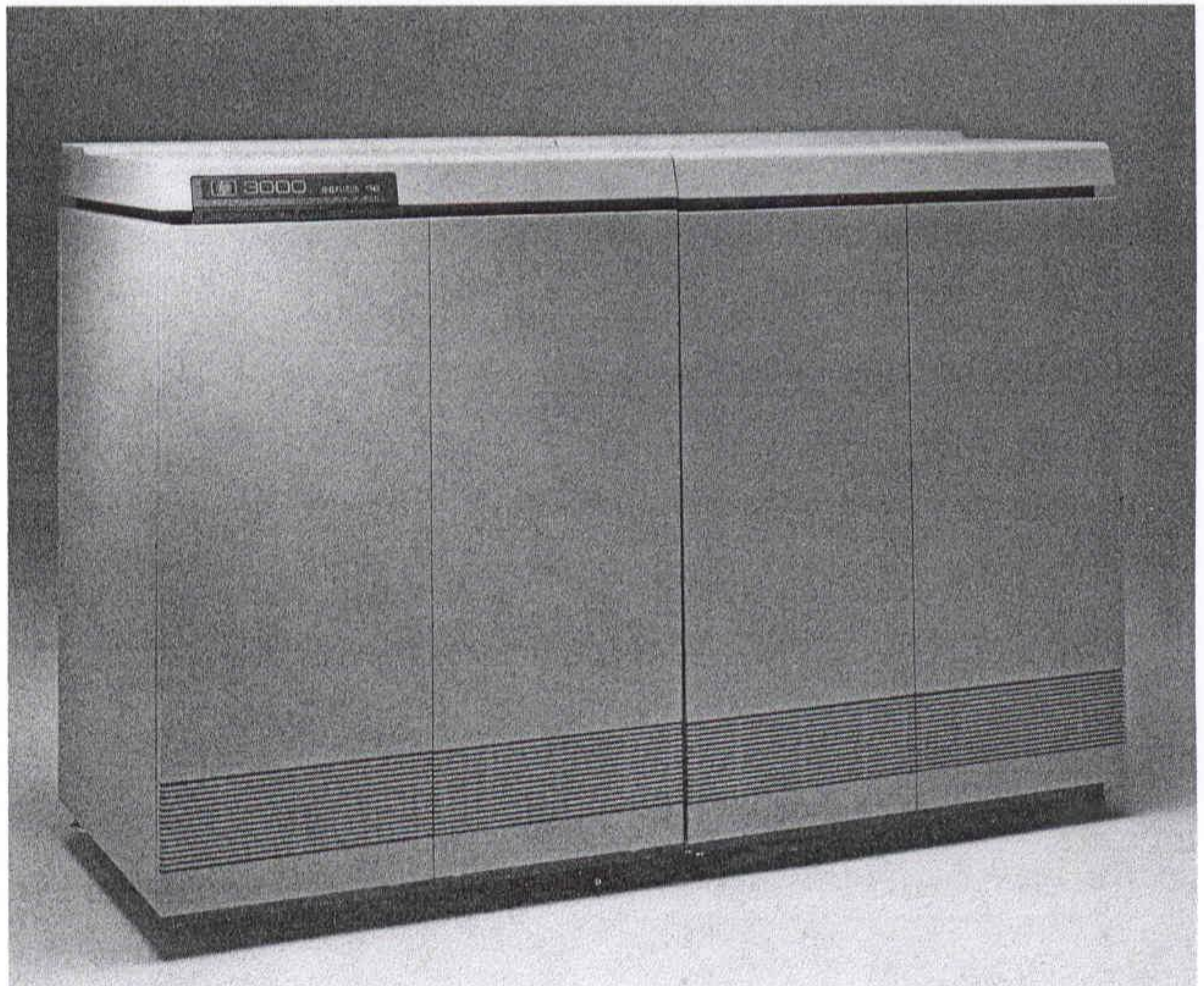
#### Data Sheet

#### Description

The Series 70 is a high-performance member of the HP 3000 family of compatible, interactive business systems. The Series 70 offers a large 128 Kb memory cache and 8 Mb main memory standard. Performing as a distributed main-frame, the Series 70 has the processing power to handle a full range of distributed data processing needs for hundreds of users. The Series 70 is suited for stand-alone operation and can support a wide range of tasks for divisions in large companies or the EDP needs of an entire company. The extensive data communications capabilities of the Series 70 make it an excellent choice as a major node or as the central computer in distributed networks. In addition to its on-line interactive capabilities, the Series 70 performs equally well in batch processing applications. Whether the needs are for large distributed networks, intensive interactive sessions, or for dedicated stand-alone applications, the Series 70 provides the power required.

#### Features

- Friendly, user-oriented software
- MPE operating environment compatibility with the HP3000 family
- Complete package of business application software
- Top-ranked data communications solutions
- Compatible upgrade path to the 900 Series for future growth



#### System Specifications

##### Memory

8 Mb main memory standard. Expandable to 16 Mb in 1 Mb and 4 Mb increments using 8 memory slots.

##### I/O Performance

Disc caching through utilization of excess memory for optimal I/O performance. Multiple I/O channels provide flexibility to maximize I/O throughput.

##### Memory Cache

128 Kb high speed cache memory.

##### Terminals and Personal Computers

Up to 336 point-to-point and total of 400 point-to-point and multi-point. Supports data entry, word processing and graphics terminals and personal computers.

##### Disc Drives

Support for 28, 65, 81, 130, 132, 307, 404, and 571 Mb disc drives as well as Controller Cache disc drives. Maximum of 13.7 Gb.

##### Tape Drives

Support for 1600 and 1600/6250 (both with autoloader capability) and 800/1600 bpi tape drives. 67 Mb cartridge tape is also supported.

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## Printers

Support for 300, 600, 900 and 1200 lpm system line printers. Also support for intelligent laser page printers, dot-matrix and daisy-wheel printers.

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## Communication Lines

Up to 24 synchronous lines for system-to-system or multipoint communication.

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## Power Failure Recovery

15-minute battery backup of system memory with automatic system recovery when power resumes.

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## Compatibility

Compatible with the full line of HP 3000 systems.

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## Remote Support Program

HP Support Link Modem available for remote diagnostics.

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## Software

### Operating Software

MPE MultiProgramming Executive  
Disc I/O Caching

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### Utilities

EDIT/V—Line editor  
FCOPY/V—File Copy tool  
SORT-MERGE/V—Sorting tool  
NLS/V—Local Language applications support tool

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### System Management

OPT/3000—On-line System Performance Product  
APS/3000—Application Program Performance Product  
HP Security Monitor/V—Enhanced system security product  
TurboSTORE/V—High speed disc to tape backup product  
HP Migration Toolset/V—Migration utilities product for MPE XL  
COPYCAT/V—Disc to disc backup product

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## Application Development

COBOL II/V  
FORTRAN 66/V  
HP FORTRAN 77/V  
Pascal/V  
BASIC/V  
SPL/V  
RPG/V  
HP Business BASIC/V  
VPLUS/V—Data entry and forms management  
Transact/V—Fourth generation language for fast application development  
Toolset/V—Program development systems  
HiLi/V—High Level screen management intrinsic Library  
Virtuoso Code Generator/V—Application generator

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## Integration and Transparency

Dictionary/V—Dictionary/directory facility for centralized control, standardization and documentation  
System Dictionary/V—Expanded capabilities over Dictionary/V

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## Reporting and Presentation

QUERY/V—Database inquiry system  
Inform/V—Interactive prompting inquiry and preformatted report generation facility  
BRW/V—Business Report Writer  
Report/V—Non-procedural report-writer  
VISOR/V—End user interface to HP SQL Databases

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## Information Storage

TurboIMAGE/V—Enhanced database management system  
TurboIMAGE Profiler/V—Database performance tool  
DBChange/V—Database restructuring tool  
HP SQL/V—Relational database management system  
SILHOUETTE/V—Database high availability product  
KSAM/V—Indexed file system using Keyes Sequential Access Method

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## Office Systems

Business Systems Plus—Provides shared resources, information distribution and messaging, and information access integrating PCs with HP 3000s  
HP DeskManager—Information distribution and messaging  
HP File/Library—Shared filing and archival  
HP Schedule—Time and resource scheduling  
HP Office Connect to PROFS  
HP Office Connect to DISOSS  
HP Telex—Telex communication  
Information Access—End-user database access for decision support  
Information Access Cullinet Link—Mainframe database access via Cullinet Information Center Management Systems  
AdvancePrint—Sharing printing and plotting for directly connected PCs  
Cooperative Services—Programmatic access to HP 3000 data and services for PC-based application development  
HP WORD—Keystroke interactive word processor  
HP Spell—American and English dictionary  
HP Listkeeper—Personal Information Management  
Curator/3000—Translator between PC and 3000 graphics  
TDP/3000—Text and Document Processor  
DSG/3000—Decision Support Graphics  
IDS/3000—Interactive Design System  
IFS/3000—Interactive Formatting System

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## Network Products

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### HP to HP Communications

Distributed Application Services  
NetDelivery/V—Asynchronous  
messaging service

#### Network Services

NS/3000/V—Network services of  
file transfer, remote logon, etc.

#### Network Links

NS LAN3000/V Link—IEEE802.3  
LAN interface card and software

NS Point-to-Point—Wide area net-  
work interface card and  
software

NS X.25 3000/V—X.25 wide area  
network interface card and  
software

Asynchronous HP Serial Net-  
work Link—Asynchronous soft-  
ware that uses ATP ports.

StarLAN/3000 Link—StarLAN/  
IEEE 802.3 LAN interface card  
and software.

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### HP to IBM Communications

#### SNA Products

SNA Interactive Mainframe Facility  
(SNA IMF)—SNA 3270 emulation

SNA Network Remote Job Entry  
(SNA NRJE)

SNA 8100 DPPX/RJE workstation  
emulation

HP LU6.2 Base—SNA Logical Unit  
6.2 base verb set for connections  
to DISSOS

HP LU6.2 Application Program  
Interface (API)—SNA Logical  
Unit 6.2 program interface for  
LU6.2 program-to-program  
communications

SNA Link—SNA interface card and  
software

SNA Server—Gateway node  
software for SNA Services

SNA Server Access—End node  
software for SNA Services

#### BSC Products

BSC Link—BSC interface card and  
software

RJE—Remote Job Entry—2780/3780  
emulation

MRJE—Multileaving Remote Job  
Entry—HASP/JES workstation  
emulation

IMF—Interactive Mainframe  
Facility—BSC 3270 emulation

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## Financial Software

HP FA—Integrated Financial  
Accounting Systems

HP FB—Financial Planning  
System

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## Manufacturing Software

HP Manufacturing Management II—  
Modular MRPII System

HP Maintenance Management—  
Planning and control software for  
maintenance departments

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## Third Party Software

A wide variety of applications  
developed by independent soft-  
ware vendors is available for the  
HP 3000. Contact your HP Sales  
Representative for further infor-  
mation.

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## Support Services

A wide range of hardware and  
software support services are  
available worldwide for all systems  
in the HP 3000 computer family.  
These services include 99%  
Guaranteed Uptime, Custom Sup-  
port and Tele-Support. Our  
HP ASSIST consulting services will  
help you analyze your application  
needs and implement HP solu-  
tions. Contact your HP Sales  
Representative for a complete  
description of hardware and soft-  
ware support services.

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## Environmental Specifications

### SPU Physical Specifications

Height: 121.92 cm(48.0 inches)

Width: 175.26 cm(69.0 inches)

Depth: 66.04 cm(26.0 inches)

Weight: 545.5 kg (1200 lbs.)

With optional I/O bay:

Height: 121.92 cm( 48.0 inches)

Width: 266.70 cm(105.0 inches)

Depth: 66.04 cm( 26.0 inches)

Weight: 681.8 kg (1500 lbs.)

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## Relative Operating Humidity

Recommended (non-condensing)  
40-60%

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## Operating Temperature

Recommended: 20-25.5 C

Maximum: 15-30 C

Non-operating: -40-+75 C

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## Heat Dissipation

3000 kcal/hour (12000 btu/hour)

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## Line Voltage/Frequency

208VAC 3 phases @ 60 Hz

380VAC 3 phases @ 50 Hz

415VAC 3 phases @ 50 Hz

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## Line Current

24 A @ 208VAC 60 Hz

13 A @ 380VAC 50 Hz

12 A @ 415VAC 50 Hz

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## Regulation Compliance

### Safety

U.L. listed for EDP equipment.  
CSA certified for EDP equipment.  
IEC and VDE compliance for data  
processing and office machines.

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### Electromagnetic Interference

Complies with FCC Rules and  
Regulations, Part 15, Subpart J, as  
a Class A computing device. FTC  
licensed as a Level A computing  
device.

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