

HW COMPUTERS
THE FORTUNE 32:16
QUICK CONFIGURATION GUIDE

STANDARD CONFIGURATION

- * Motorola 68000 - 6 MHz
- * UNIX - single user
- * 256 KB ram expandable to 1 MB. ECC option available
- * 800 KB flexible disk drive
- * Flexible disk controller - up to four drives
- * Four segment memory management unit
- * Four available DMA controller slots
- * Character generator video display controller
- * RS 232C serial port in mother board
- * 230 watt power supply
- * 480 x 800 green p39 monochrome monitor, tilts and swivels
- * 99 key detachable keyboard with 16 function keys

SYSTEM PRICING

1000001-02	SYSTEM ONE standard configuration (see above)	4,995.00	1Q83
1000003-02	SYSTEM TWO system one with second floppy	5,990.00	1Q83
1000005-02	SYSTEM FIVE system one with 5 MB hard disk	8,990.00	
1000007-02	SYSTEM TEN system one with 10 MB hard disk	9,990.00	
1001028-02	SYSTEM TWENTY system one with 20 MB hard disk	10,990.00	NOV

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HARDWARE PRICING

1000340-01	128 KB memory board	750.00	NOV
1000031-01	256 KB memory board	1,495.00	
1000014-01	2 port serial asynchronous controller	395.00	
1000171-01	4 port serial asynchronous controller	495.00	
1000021-01	2 port intelligent comm. controller	795.00	DEC
1000170-01	4 port intelligent comm. controller	995.00	DEC
1001029-01	1 port parallel I/O controller	295.00	1Q83
1000172-01	2 port parallel I/O controller	395.00	1Q83
1000058-01	800 KB flexible disk	995.00	
1000159-01	5 MB hard disk	2,775.00	
1000159-02	10 MB hard disk	3,775.00	
1000159-03	20 MB hard disk	4,775.00	NOV
	Hard disk controller	1,240.00	
1000091-01	Intelligent work station	1,095.00	
1000695-01	Mag tape backup 20 MB	3,550.00	1Q83
1000695-02	20 MB backup + 5 MB hard disk	5,550.00	"
1000695-03	' ' + 10 MB hard disk	6,550.00	"
1000695-04	' ' + 20 MB hard disk	7,550.00	"
1001031-01	' ' + 5 MB hard disk w/controller	6,790.00	"
01031-02	' ' + 10 MB hard disk w/controller	7,790.00	"
1001031-03	' ' + 20 MB hard disk w/controller	8,790.00	"
1001032-01	Disk expansion cabinet	750.00	

APPLICATION SOFTWARE

1000192-01	Order processing and inventory control	595.00
1000193-01	Accounts receivable	595.00
1000194-01	Purchase orders	395.00
1000195-01	Accounts payable	595.00
1000196-01	Payroll	595.00
1000197-01	Fixed assets	595.00
1000198-01	General ledger	395.00
1000199-01	IDOL - data base, hierarchal	595.00
1000200-01	For:ward - word processing	495.00
1000201-01	Multiplan - spreadsheet	295.00

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OPERATING SYSTEMS AND LANGUAGES

1000174-01	Single user UNIX	1,495.00
1000176-01	Multi user UNIX	1,995.00
1000177-01	Single to multi user upgrade	495.00
1000178-01	Development tools	495.00
1000179-01	SMC Business Basic interpreter	295.00
1000180-01	Cobol runtime	495.00
1000181-01	Cobol compiler	795.00
1000182-01	Fortran	495.00
1000183-01	Pascal	495.00
1000184-01	C	495.00

COMMUNICATIONS SOFTWARE

1000185-01	Asynchronous CU	195.00
1000186-01	Asynchronous UUCP	195.00
1000187-01	Bisynchronous - Batch 2780	595.00
1000188-01	" " 3780	595.00
1000189-01	" " 3741	595.00
1000190-01	" " 2770	595.00
1000191-01	" " 2986	595.00
1001048-01	Bisynchronous - Interactive 327X	695.00

MISCELLANEOUS

1000013-01	IEEE 488 interface cable	49.00
1000013-02	Centronics interface cable	49.00
1000633-01	Work station 10' male to male	43.00
1000633-08	Work station 20' male to male	56.00
1000633-09	Work station 50' male to male	67.00
1000633-04	Work station 50' male to female	67.00

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HARDWARE OPTIONS

HARD DISK

Minimum access time of 70-85 ms.
Available in 5, 10, or 20 MB.
One drive will fit in main unit.
Two drives will fit in expansion unit.
512 byte sectors read two at a time, minimum.

Requires hard disk controller. One controller comes standard with system 5, 10, and 20. One controller can accommodate 4 hard disks in any combination, 5, 10, or 20 MB.

HARD DISK CONTROLLER

Supports winchester ST506 interfaced drives.
Accommodates 1 - 4 drives.
Non interlaced reads.
Access time as low as 10 ms.
Automatic 24 bit data reconstruction.

Requires one available DMA controller slot.
One controller per master unit.

FORTUNE WORK STATION

Connects via RS232C @ asynch up to 19.2 KB.
Z80 , 64KB ram, 2 RS232C expansion connectors
for printer and options.
Locate 50' @ 19.2 KBaud or 250' @ 9600 Baud.

Requires Multi-user Unix operating system. May need more memory depending on application being run. Also requires either a serial asynchronous controller or an intelligent communications controller.

SERIAL ASYNCH CONTROLLER

Limited intelligence and buffering.
Use for 2nd or 3rd work station - light duty.
Comes in two port or four port version.

Requires one available DMA controller slot for for either the two or four port version.

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HARDWARE OPTIONS

INTELLIGENT COMMUNICATION CONTROLLER	<p>4 MHZ Z80, 64 KB dual ported ram. Multiple RS232C - EIA interfaces. Designed to handle real time tasks of Fortune System. Required for most communications packages.</p> <p>Requires one available DMA controller slot for either the two or four port version.</p>
BIT MAP CONTROLLER	<p>Seperate Motorola MC 68000 NEC 7220 VLSI graphics chip Graphics controller with 64 KB graphics ram. Graphics are mixable with charactor generator output. 640x480 pixel density. Requires one available DMA controller slot.</p>
BIT MAP EXPANSION OPTION	<p>192 KB graphics ram and color lookup logic. 4 color images of 1024x1024 displayed by 480x800 pan. 16 colors displayable from a palette of 4096 @ 480x800.</p> <p>Requires the bit map controller.</p>
RGB COLOR MONITOR	<p>High resolution 800x480 NTSC RGB monitor. Same enclosure as monochrome monitor - tilts and swivels.</p> <p>Requires the bit map controller and bit map expansion option. Must also have 'B' character generator.</p>
PARALLEL I/O CONTROLLER	<p>Semi intelligent, for streamer tape cartridge, IEEE 488 or Centronics interfaced devices. Available in one or two port version.</p> <p>Requires one avaiailable DMA controller slot.</p>
STREAMER TAPE CARTRIDGE	<p>90 ips 1/4 inch streamer. Backs up 20 MB in 8 minutes. quick disconnect, can be shared among master units.</p> <p>Requires one parallel I/O controller. This controller can be used for other parallel devices while not connected to the streamer cartridge.</p>

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HARDWARE OPTIONS

DISK EXPANSION CABINET Plastic enclosure identical to master unit for any combination of one or two hard or flexible disks.

TAPE CARTRIDGE EXPANSION CABINET Plastic enclosure identical to master unit except for slot for 8" cartridge streamer. Will also accommodate a 5 1/4 device

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SOFTWARE OPTIONS

- UNIX** Full Unix v7 with extensions from the University of California Berkeley 4.2 system and Unix System III. It also has many Fortune enhancements. Both a single and multi-user version will be available. With the single user version all tasks must be memory resident.
- Single user Unix requires 64KB of ram for the code.
Multi user Unix requires 110KB of ram for the code and at least 256 KB ram and 5 MB hard disk.
- SMC BUSINESS BASIC III INTERPRETER** This is a Basic Four^R compatible interpreter with Fortune extensions to facilitate the filtering of other basics to BBIII. Applications originally developed for Basic Four, Rexon, Mercator, Onyx, and IBM Series 1 using BBIII can run on the Fortune.
- MICRO FOCUS COBOL (CIS)** Hybrid compiler with intermediate features.
- Requires 64 KB application space and one floppy disk.
- LPI COBOL** Highly optimized generative compiler , GSA certified high intermediate , has extensions for IBM 3274 Cobol pass thru plus extensive screen formatting .
- Requires 200 KB ram and 5 MB hard disk.
- FORTRAN 77** Not standard Unix Fortran 77 compiler, but compatible with it. Generates code 100% more efficient.
- Requires 210 KB ram and 5 MB hard disk.
- PASCAL** Two versions will be available. One is standard UC Berkeley and the other will have ISO level 6 and UCSD extensions.
- Requires 210 KB ram and 5 MB hard disk.

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SOFTWARE OPTIONS

- C** Based on the MIT 68000 portable C compiler with 3 man years of bug fixes and peephole optimization by Fortune.
Requires 210 KB ram for compiles and 5 MB hard disk.
- CU** An asynch ASCII terminal emulator used to connect the Fortune to another computer.
Requires 22 KB application ram, floppy disk and Asynch interface.
- UUCP** A group of six programs used to transfer files between Unix systems or execute programs on multiple Unix systems which need not be Fortune systems.
Requires 64 KB application space, floppy disk, and an asynch interface.
- BISYNCH COMMUNICATIONS** 2780, 3780, 3741, 2770, and 2968. Real time portion of these programs run on the intelligent communications controller while the Unix interface runs on the 68000.
Requires 40 KB application space, one floppy disk and the intelligent communications controller.
- 327X** This is an emulator for the IBM 3275, 3276, and 3274 systems. It supports both bisynch and PU level 2 SNA. This package supports pass thru via LPI Cobol
Requires 30 KB application space, one floppy disk and the intelligent communications controller.
- IDOL** This is a data base management system based on a dictionary and a B tree retrieval scheme. It has screen formatting capability that facilitates program development.
Requires the SMC BBIII interpreter, (90 KB) and 20 KB application space plus 5 MB hard disk minimum.

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SOFTWARE OPTIONS

- FOR:WORD** Fortune's own word processing software written in C. It is a superset of the Wang OSI word processor, the best seller. It is absolutely the finest word processor available on a micro.
- MULTIPLAN** Spread sheet modeling package licenced from Microsoft. Also the finest spreadsheet available on a micro.
- BUSINESS APPLICATIONS** All Fortune business applications are written in SMC BBIII and are loaded as 20 KB overlay segments while executing. One copy of the interpreter needs to be resident.
- Requires 90 KB BBIII interpreter and 20 KB application space. If multiple tasks to run concurrently you need an additional 20 KB ram plus 20 KB for each user plus a 5 MB hard disk.
- Inventory and Purchase orders require hard disk.