

Rev. prices 1/79

Amdahl 470 Systems



	Excellent	Good	Fair	Poor	WA*
Ease of operation	6	0	0	0	4.0
Reliability of mainframe	6	0	0	0	4.0
Responsiveness of maintenance service	6	0	0	0	4.0
Effectiveness of maintenance service	5	1	0	0	3.8
Technical support	5	1	0	0	3.8
Ease of programming	6	0	0	0	4.0
Ease of conversion	6	0	0	0	4.0
Overall satisfaction	6	0	0	0	4.0

*Weighted Average on a scale of 4.0 for Excellent.

The user ratings awarded the 470V/6 do not provide much of an opportunity for analysis. Clearly, the system performs exactly as expected, it is fully compatible with its IBM counterparts, and Amdahl has gone beyond IBM in providing reliability and maintenance aids. Further, the Amdahl users are convinced that the company has not stopped at providing good, efficient hardware, but has assembled a highly competent field support organization in sufficient numbers to insure the highest possible system availability. □

▶ transfer rate of one word every eight cycles. The DACL is organized as a pipeline to allow overlapping of the functions. It polls each channel every 16 cycles for service requests, concurrently transfers data in both directions between the Storage Unit and the Channel Buffer Store, and reads or stores the results of each transfer operation.

The OCL translates channel commands and coordinates channel program execution for the C-Unit.

A dynamic priority scheme controls the allocation of service to I/O channels. Channels can issue high-priority and low-priority requests for service. Each channel is assigned a 32-byte buffer area in the Channel Buffer Store. Channels with less than half a buffer area remaining are assigned high priority, while those with more than half a buffer space available are assigned low priority. The S-Unit resolves conflicts for access to the High-Speed Buffer according to its own internal priority structure, permitting high-priority channel requests to take precedence over central processor requests for access to the High-Speed Buffer. An I/O operation is always executed at a higher priority than buffer prefetch operations.

The C-Unit performs parity checks on all input and output data transfers and on data transfers to the Storage Unit. Other functions include channel indirect addressing compar-

able to that implemented on the System/370, and extended channel logout.

According to Amdahl, the 470V/7 I/O operations will be similar to those of the 470V/5 and 470V/6-II, but there will be certain differences within the DACL and CACL units. No details were forthcoming at the time of this writing.

PERIPHERAL EQUIPMENT

The Amdahl 470 systems can utilize all IBM System/360 and System/370 input/output and mass storage devices, as well as their plug-compatible counterparts from independent vendors. Detailed coverage of many of these peripherals can be found in Volume 2 of DATAPRO 70.

SOFTWARE

Amdahl offers complete functional compatibility with IBM System/360 and System/370 software. Amdahl Corporation intends to support users of current IBM system software by providing new releases of the software, including minor modifications to account for differences in the way the 470's handle machine check conditions, and by supplying software support services for its customers.

Operating systems supported include OS/MVT, OS/VS1, OS/VS2 (SVS and MVS), and VM/370. Also included is support for such major IBM subsystems as HASP, ASP, TSO, TCAM, JES2, JES3, VTAM, RSCS, CMS, and IPCS.

Amdahl maintains a Programming Systems Support (PSS) group that supplies its own versions of the supported IBM systems releases. The PSS group also issues Amdahl versions of the IBM Program Temporary Fix (PTF) tapes.

PRICING

The Amdahl 470 systems are offered for purchase or for lease under a new 5-year operating lease plan that was announced in January 1978. The new leases can be terminated after four years upon payment of a penalty. The monthly rental charges include maintenance, taxes, and insurance fees. Amdahl also passes investment tax credits to both purchaser and lessee.

Other lease terms include purchase credits of 50 percent of total lease payments, lease renewal discounts, and a price escalation limit of 5 percent per year. Rental charges for lease extensions are 80 percent of the last month's payment for a 12-month extension, 70 percent for a 24-month extension, and 60 percent for a 36-month extension.

Prices for all current configurations of the Amdahl 470 systems are shown in the following Equipment Prices section. ■

EQUIPMENT PRICES

		Purchase Price	Monthly Maint.*	Rental** (5-year lease)
PROCESSORS AND MAIN MEMORY				
470/V5	CPU Complex; includes 16K-byte buffer storage, console including maintenance processor, power distribution unit, main memory and channels as indicated:			
	With 4,194,304 bytes of main memory and:			
	8 channels	2,150,000	8,150	52,000
	12 channels	2,300,000	8,650	55,575
	16 channels	2,450,000	9,150	59,125
	With 6,291,456 bytes of main memory and:			
	8 channels	2,320,000	9,100	56,400
	12 channels	2,470,000	9,600	60,000
	16 channels	2,620,000	10,100	63,550

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		<u>Purchase Price</u>	<u>Monthly Maint.*</u>	<u>Rental** (5-year lease)</u>
PROCESSORS & MAIN MEMORY (Continued)				
	With 8,388,608 bytes of main memory and:			
	8 channels	2,490,000	10,050	60,825
	12 channels	2,640,000	10,550	64,400
	16 channels	2,790,000	11,050	67,975
470V/6-II	CPU Complex; includes 32K-byte buffer storage, console including maintenance processor, power distribution unit, main memory and channels as indicated:			
	With 4,194,304 bytes of main memory and:			
	8 channels	2,580,000	8,250	60,875
	12 channels	2,730,000	8,750	64,350
	16 channels	2,880,000	9,250	67,900
	With 6,291,456 bytes of main memory and:			
	8 channels	2,750,000	9,200	65,300
	12 channels	2,900,000	9,700	68,750
	16 channels	3,050,000	10,200	72,325
	With 8,388,608 bytes of main memory and:			
	8 channels	2,920,000	10,150	69,725
	12 channels	3,070,000	10,650	73,175
	16 channels	3,220,000	11,150	76,750
470V/7	CPU Complex; includes 32K-byte buffer storage, console including maintenance processor, power distribution unit, main memory and channels as indicated:			
	With 4,194,304 bytes of main memory and:			
	12 channels	3,480,000	9,250	80,250
	16 channels	3,630,000	9,750	83,800
	With 6,291,456 bytes of main memory and:			
	12 channels	3,700,000	10,200	85,675
	16 channels	3,850,000	10,700	89,250
	With 8,388,608 bytes of main memory and:			
	12 channels	3,920,000	11,150	91,125
	16 channels	4,070,000	11,650	94,675
	With 12,582,912 bytes of main memory and:			
	12 channels	4,360,000	13,050	102,650
	16 channels	4,510,000	13,550	106,200
	With 16,777,216 bytes of main memory and:			
	12 channels	4,800,000	14,950	112,875
	16 channels	4,950,000	15,450	116,425
PROCESSOR OPTIONS				
	Two-Byte Interface for I/O Channels	1,400	NC	40
	Channel-to-Channel Interface	32,500	NC	900
	4-Channel Group	175,000	NC	—
	Upgrade: 470V/5 to 470V/6-II	530,000	NC	—
	Upgrade: 470V/6 to 470V/6-II	100,000	NC	—

* Maintenance prices include 24-hour, on-call service 7 days per week.

**Rental prices include maintenance.