EXPANDED PDP-11/35 BUSINESS PLAN (21" CHASSIS)

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PDP-11/OEM Marketing
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SYNOPSIS

1. PRODUCT

11/40 converted to 16K memories less TTY and services.

2. BASIC PRICE INCLUDES

CPU console, 21" chassis, cab, power control, power supplies, and appropriate memory.

3. COST

<u>16K</u>	<u>32K</u>	<u>48K</u>	<u>64K</u>
4021	5022	6181	7182

4. RECOMMENDED PRICE

\$

\$16995	20495	24495	27995
STOSSO	20493	24433	2/333

5. TERMS

Type 1 OEM Discount/Return to Factory Warranty.

6. GROSS MARGIN AT 29% AVERAGE OEM DISCOUNT

66.7	65.4	64.4	63.9

7. RELATED/AFFECTED PRODUCT

OEM PDP-11/40

8. ANNOUNCEMENT/DELIVERY

16K announced October 1 for Q3 delivery.
32K, 48K, 64K announced January 1 for Q4 delivery.

	TABLE OF CONTENTS	
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i.	Product Description	1
II.	Cost Data	3
III.	Margin Analysis/Recommended Price	4
IV.	Product Unit Forecast	5
v.	Related/Affected Products	6
VI.	Product Schedules	7
VII.	Competition	8
APPEN	NDIX A	
CC	OST REFERENCE JUNE (PINK BOOK)	

I. PRODUCT DESCRIPTION

The primary intent of the expanded 11/35 is to provide an aggressively priced processor/memory package to gain additional revenues from present and additional OEM customers requiring the processing capability of the 11/40 class machine. In the OEM marketplace, these customers are presently purchasing 11/40 systems with a gross value of \$45,000 - 50,000 and having slightly over 32K of core.

Additionally, the expanded 11/35 completes the establishment of a true OEM product family by offering the power and packaging flexibility of the 11/40 chassis on unbundled OEM terms. The OEM product family now would consist of 5 1/4" and 10 1/2" 11/05; 10 1/2" and 21" 11/35. The expanded 11/35 also provides a vehicle for the sale of the new 16K memories.

The expanded 11/35 is mechanically the 11/40 as presently sold with the following changes.

- 1. TTY and control (standard on 11/40) are not included and must be purchased as line items.
- 2. Existing 8K (MF11-L) backplane and power regulator are removed. 16K (MF11-U) backplane, power regulator and harness are added.
- 3. Memory Management Unit (KT11-D) is included.
- Front panel rescreened 11/35.

I. PRODUCT DESCRIPTION (Con't)

As with the 10 1/2" 11/35, the expander version will be sold as an OEM product with a type 1 discount. Terms and conditions are those of the OEM discount agreement, i.e., 30 day return to factory warranty, documentation at list prices, and circuit schematics and OEM diagnostics with each system. All other products/services such as system software, training, installation and extended warranty are available at established prices.

The expanded 11/35 will be available in four versions varying only in core memory size. Memory Management will be standard. I/O Console device and control (TTY or LA30) is not included and must be purchased as a separate line item. All other standard hardware features of the 11/40 are included.

TYPE #	MEMORY	VOLTAGE	SYSTEM UNIT SPACES AVAILABLE
11/35 /	16K	115/230	5
11/35 /	32K	115/230	5
11/35 /	48K	115/230	3
11/35 /	64K	115/230	3

II. COST DATA

Presented below is the cost data used as the basis for this plan. Except where noted, costs shown are "Prior 3 Month's Weighted Average Actual Cost," from the June 1973 Option and System Actual Cost Report (Pink Book).

1. 16K Model

11/40-CA \$4390

Less LT33DC \$ 941
DL11-A 84
MF11-L 711
\$1736

Plus
16K MF11-U*
KT11-D 208

BASIC COST \$4021

2. 32K Model

Plus 16K MM11-U*

COST \$\frac{1001}{50022}

3. 48K Model

Plus 16K MF11-U*

COST \$\frac{1159}{6181}

4. 64K Model

Plus 16K MM11-U*

COST \$\frac{1001}{7182}

*Cost from MF11-U/MM11-U business plan.

NOTE:

- 1. Cost of Option Level only.
- 2. Cost does not include FY74 accounting changes.

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III. MARGIN ANALYSIS/RECOMMENDED PRICE

	ORY SIZE TH MGMT.	DEC PRICE	COST	% G.M. AVE DISC. 29%	% G.M. MAX. DISC. 38%
1.	16K	16995	4021	66.7	61.8
2.		+5%	4871	59.6	53.8
3.		+5%	5721	52.6	45.7
1.	32K	20495	5022	65.4	60.4
2.		+5%	6047	58.4	52.4
3.		+5%	7072	51.4	44.3
1.	48K	24495	6181	64.4	59.3
2.		+5%	7406	57.4	51.2
3.		+5%	8631	50.4	53.2
1.	64K	27995	7182	63.9	58.6
2.		+5%	8582	56.8	50.6
3.		+5%	9982	49.8	42.5

NOTE: Lines 2 and 3 of each category above provide margins realized if miscellaneous costs are added to the manufacturing costs at 5% of list price. This was first done in the June 1973 Cost Report (Pink Book).

Line 2 represents allocated miscellaneous manufacturing costs.

Line 3 represents system integration.

IV. PRODUCT UNIT FORECAST

	<u>Q1</u>	<u>Q2</u>	<u>Q3</u>	<u>Q4</u>	TOTAL
FY74			*130	*150	280
FY75	150	160	170	175	655
FY76	175	180	175	150	680
FY77	100	50	30	***************************************	180
			경기 교육 :		1795

*Based in part on conversion of existing 11/40 orders and customers.

With the exception of the 16K memories, this product is now over one (1) year old. Approximately two (2) years additional life can be expected and then a sharp drop will occur due to announcement of new mid-range 11 replacement at significantly less \$.

The table below presents estimated gross revenues for the above CPUs shipped as systems. Average value per system will rise as lower core prices trigger increased core buying and additional peripherals are added to the system. The rise will be very slight due to price erosion.

FIS	SCAL YEAR	# 5	SYSTEMS	SYSTEM REVENUES*	AVERAGE
	FY74		280	\$12,040	\$43K
	FY75		655	31,440	48K
	FY76		680	35,360	52K
	FY77		180	9,540	53K

^{*}In 000's

V. RELATED/AFFECTED PRODUCTS

Presently OEMs can purchase the 11/40 only as a bundled full-service system. With the 11/40 now an accepted product in the marketplace, many OEMs wish to make repeat buys without paying for unnecessary services. The expanded 11/35, offered as an unbundled product on OEM terms fulfills this need.

Since 70% of the present OEM 11/40 business comes from less than 20 customers, a minimum 70% of OEM 11/40 business will be converted to the expanded 11/35. Unbundling, combined with the aggressive pricing contained herein, is expected to bring the impact to over 90%. New OEMs may still buy bundled systems (11/40) for development under the new OEM QDA, but this should be less than 10% of total OEM requirements for the processor and will approach zero in a short time. This is supported by the fact that with software now treated as a product at standard prices, even new OEMs will probably buy the expanded 11/35 in order to maintain product continuity.

In summary, the OEM 11/40 business will convert to the expanded 11/35.

VI. PRODUCT SCHEDULES

As the 16K memories are already being implemented on the 11/40 (new regulator - H754, new power harness), the expander 11/35 can be produced as soon as these ECOs are completed and the 16K memories available.

The OEM Group will ship the first production 16K sense systems in Q2, FY74 if all ECOs and tests are completed on schedule. Large scale deliveries can then be made in Q3.

VII. COMPETITION

The expanded version of the 11/35 will compete in the OEM area primarily with the Data General Nova 840. Varian has announced a "memory mapping" feature with the V-73 to handle 256K words of core, but price and policies are not available.

16K NOVA 840	\$16,530	EXPANDED 11/35	\$16,995
Less Memory	-2,400		
Price Cut	14,130		
CAB	1,000		
POWER FAIL	400		
	\$15,530		

32K

ADD 6,400 \$21,930

\$20,495

APPENDIX A

COST REFERENCE JUNE (PINK BOOK)

PRODUCTION BUSINESS MANAGE	R			RESPONS	IBLE ENG	INEER	
B. Hesseltine		WESTMINSTER		В. /	rmstrong		
CURRENT:	Average Ac Jun		FY Stand	74 la rd		Month's Actual	Weighte Cost
Raw Material		908				907	
ezory Stack		234				225	
Labor & O/H Added: Lab		Total		Part Sec			
	136	176				184	
	22 64 72 252	86 324				88 303	
	48 118	166				162	
230	45 565	810				868	
	27 1135	1562				1605	
Direct Product Build Cost		2704				2737*	
Allocated Misc.Mig. Cost		500					
Cost Before System Integra		3204					
Allocated System Integrati	on	500					
Total Manufacturing Cost		3704					•
	Dir. P	rod.					
Comments:	Build	iost					
* Restated to include corr in Bill of Material	rect P/S co	StS					
	rect P/S co	StS				Cum Volu (Un:	
in Bill of Material HISTORY: Date of 1st Sh	ipment		PEB.	MAR.	APR.	Volu	
in Bill of Material HISTORY: Date of 1st Sh	ipment	I.Qtr. JAN.	PEB.	MAR.	•	Volu (Un:	JUNE
in Bill of Material HISTORY: Date of 1st Sh Dir. Prod. Build Cost 1s	ipment			MAR.	2836*	Volu (Un:	JUNE 2704
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Maynard List Price:

\$9,995

PRODUCTION BUSINESS HA	anager		A_{ij} , A_{ij} , A_{ij}		RESPONS	IBLE ENG!	INTER	
B. Hesseltine		WESTMI	NSTER		2.	Arcstron	8	
CURRENT:	Averag	e Actual (June	Cost		'74 dard		Month's	
Raw Material			00				2002	
Memory Stack	" _:		34				220	
Labor & O/H Added: Board Fabrication		<u>/H Tot:</u> 156 2	03				192	
Metal Fabrication			08				215	
Module Preduction			15				320	
Sub-Assy. Prod.			25				269	
Final Assy.&Test Labor & O/H Total			7 <u>5</u> 26				1172 2168	
Labor & O/R Total	439 12	17					****	
Direct Product Build		396					4390	
Allocated Misc.Mfg. Co		65						
Cost Before System In Allocated System Inte		461 65						
Total Manufacturing C		526						
HISTORY: Date of 1	st Shipment						Cum Veil: (Ca	ıze its)
HISTORY: Date of 1 Dir. Prod. Build Cost		2nd.Qtr.	JAN.	FEB	MAR.	APŘ.	Vel	
		2nd.Qtr. 4497	JAN. 4297	FEB. 4467	MAR. 4463	APk. 4457	Vel (Te	its)
			11				Velv (Ca May	its)
Dir. Prod. Build Cost	<u>let.Qtr.</u>	4497	4297	4467	4463	4457	Vol: (Cn. <u>MAY</u> 4318	
Quantity Produced Acceptance Yield Dir. Prod. Build Cost Committed by Mfg. Initial Cost Estimate FORECAST: Dir. Prod. Build Cost	1st.Qtr. s3755	4497	4297	4467	4463	4457	Vol: (Cn. <u>MAY</u> 4318	
Quantity Produced Acceptance Yield Dir. Prod. Build Cost Committed by Mfg. Initial Cost Estimate FORECAST: Dir. Prod. Build Cost Qty. Per Month Estimated Product Lif	1st.Qtr. \$3755 s	4497	4297	4467	4463	4457	Vol: (Cn. <u>MAY</u> 4318	396 17
Quantity Produced Acceptance Yield Dir. Prod. Build Cost Committed by Mfg. Initial Cost Estimate FORECAST: Dir. Prod. Build Cost Qty. Per Month	1st.Qtr. \$3755 s	4497	4297	4467	4463	4457	Vol: (Cn. <u>MAY</u> 4318	396 17
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Maynard List Price: