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INTEROFFICE MEMORANDUM

TO: The Operations Committee  
cc/John Leng  
Larry Portner  
Dick Clayton  
Computer Strategy Committee

DATE: September 20, 1971

FROM: David Stone

DEPT:

SUBJ:

On behalf of the Computer Strategy Committee, I have put together the attached proposal for your consideration. It is a suggestion of a way to go, rather than a detailed implementation plan. Comments on the validity of the proposal as well as the propriety of our making it are requested.

attachment

Proposal to build a low cost hardware system capable  
of running current DEC System-10 software

- . The target is \$200K to \$500K systems inside the computational market; this system fills the gap under the DEC system 1040.
- . We should build this system to exploit the 100 man-years of perfected, heavily used PDP-10 software now in existence. DEC system 10 software is ideally suited to both batch and time-sharing computational users and we are adding to it at a rate of 25 man-years per year. We should broaden the market for the software we have already got-- it's a superior product.
- . We should plan to start soon and be able to deliver a system by January, 1974. It is important to know now what we are going to do, because the PDP-10 plans in this area affect the 11/45 marketing plans. [The alternative plan of capturing this market with 11/45 based software would be more costly and take longer.]

System Prices

The system we need to capture this market is:

	1040 (now)		Low Cost	11/45 (now)		[in \$(000
	MFG	SALE	MFG	MFG	SALE =	
CPU	33		8	5		
48 K core (36 bits)	60		24	30		
RPO2 DISK	32		22	23		
Card Reader	6		5	2		
Line Printer	23		10	10		
8 Local Teletypes	<u>8</u>	<u>    </u>	<u>8</u>	<u>9</u>	<u>    </u>	
Totals:	162	487	77	79	192	

We can reasonably expect to manufacture the low-cost DEC System 10 for under \$80 K, allowing us to sell it for \$250 K and up.

The only part of the system not now under way in the PDP-10 product line is the low-cost cpu.

### What We Are Selling

We are selling a proven product - DEC System 10 software. We would not expect to sell the hardware by itself. For this reason, the speed of the hardware is not critical. We are offering this market its first chance to get at all the DEC System 10 software facilities; it is not so much the speed with which they execute, but rather that they are available at all for this price that will sell the system. Cobol is an excellent case in point.

In addition to the software, we have an excellent set of documentation, a competent and trained field support staff and a set of training courses already available.

### 11/45 Implications

If we decide to implement this proposal, the 11/45 systems should be aimed to complement the low cost DEC System 10. In addition to upgraded support of the 11/20 systems (DOS, RSTS, RSX, COMTEX) we should emphasize the real time systems aspect of the 11/45 hardware and software - for the real time is the PDP-10's weakest point. Other complementary strategies include remote batch station use, communication front ends and computational systems up to \$250 K. I believe it is important to decide on this market strategy before the 11/45 announcement is made and hence feel that we must make the PDP-10 system decision soon.