



Inter-Office Communication

To: Bill Walker

Date: April 7, 1969

From: Hiro Moriyasu

BEAVERTON

Subject: Engineering Computer Needs

There is a great deal of interest in more computer-capabilities-need among various engineering groups. The need will continue to increase as technological advancement demands. Since applications are quite different for each area, it is difficult to satisfy by a single hardware.

For the purpose of looking at the over-all picture as to the level of activity and likely requirements, I have attached a summary sheet.

In some specific applications we may have a pretty good idea as to the required core capacity, I/O, etc., but there are several potential new areas that can be of significant importance in both technological advancement and contributing revenue to the company.

It is important at this time to look at a broader picture and establish a certain direction.

HM:pe
Att.

cc: Wim Velsink

ENGINEERING COMPUTER NEEDS

	CORE CAPACITY NEED	DISK / TAPE	CURRENT 1130 USAGE (hr / last Acc. period)	PURPOSE	REQUIREMENTS			Recommended Hardware	Cost / mo
					Access	Character- istics	Output		
CRT related	16K min	Disk	1108	Electron optics Analysis	Batch process		Numerical & Calcomp		
Circuit Analysis a) Desk top Computation	3K	—	—	Computer sliderule	Instant		Number		
b) Transient Analysis & Optimization	16K min	1-2 disks	31	Circuit analysis & Optimization	part time	Today limited to 20 model Eg. Need more Capacity	Faster CALCOMP		
Component Data	8K?	"Big File"	37	Compiling Components data & Retrieve	less than 1/2 min	print out by Spec. • Part No • Cost • Availability	CRT & Hardcopy		
Prod. Eval. system eval.	8K	Mag Tape Small Disk	12	Evaluation of Insts, Systems and Terminals.	Full time	Flexible			
Terminal Development	?	?	—	To develop Terminals	Full time	Flexible			
Component Design E.C. I.C. & Mech. a) Calculations	3K	—	12.5	Tolerance Analysis & other Calc.	Instant		Number		
b) Topology	8K	2-3 disks		Quick - Precision Topology Layout	Part time	Large Graphic Capability	CRT & 5mil resolution calcomp		
Prod. Planning	8K	disk	~10	Analyze Sales Data	Instant when needed	Sort them out by various combination	CRT Display		