DATAFEED

- 1. The scenario is a DECISION ROOM in which information is called up in various forms. The DATAFEED equipment is one part of this room.
- Datafeed consists of one control screen and three data screens, on which information is cast by back-projection. A general view is shown in Figure 1. The seating is for ten people.
- 3. The control screen is fed by one projector holding 80 slides.
- 4. Each data screen is fed by three such projectors, and their layout is shown in Figure 2.
- 5. There are 3x3x80 = 720 slides of data. The control problem is to screen any one of these slides on an appropriate screen. Note: the whole batch of 720 slides may be changed to represent another situation.
- 6. It is ergonomically desirable that everyone in the room should have a direct and simple method of controlling the data screens.
- 7. Figure 3 shows such a control panel, which would be shared by two people (therefore five such panels, ganged together).
- Each data screen is supplied by 240 slides. The selection system is twofold. First select a class (say 1 of 20 classes) then a subclass (say 1 of 12 subclasses). Redundancy is supplied to permit flexibility. Thus there are 32 possible classes and 32 possible subclasses in each class
 _apparently 2464 alternatives. In fact, there are only 240 alternatives, and the classes and subclasses must be chosen accordingly.
- 9. Any control panel commands first the control screen, permitting these selections, and secondly the appropriate data screen. The switching specification is given in Table 1; it specifies a mini-computer.
- 10. At Figure 4 is a visual representation in support of Table 1.

QUESTIONS:

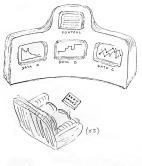
1. Can the optical set-up be achieved?

2. What is the optimal size of screen? (Note: up to 32 lines on Control.)

- 3. Figure 2: then what are the dimensions x and y?
- 4. What is the cost of the optical set-up?
- 5. Is there any known method for the control set-up?
- 6. If not, can the control set-up proposed be achieved?
- 7. At what cost?

All Messe guistions have since been satisfactorily answered.

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LAYOUT

FIGURE I

BACK . PROJECTOR

LAYOUT

FIGURE 2



ACTUAS SIZE

CONTROL PANEL

FIGURE 3

No.	ACTION	and if required	CONTROL Screen	No. of slides	Constraint	DATA Screen	Other Action
1.	Press A or B or C		shows classification for this screen	3	32 classes each plus CODE 1		selects screen assembly
2.	Punch CODE 1		shows relevant sub-classification	≯ 32	$32 \text{ subclasses} \\ \text{each plus} \\ \text{CODE } 2 \\ (3x32+3 = 99) \\ \Rightarrow 80$		Hold control screen Set up data screen
23.		Punch another CODE 1	shows another sub-classification	≯ 32	(32x32 = 1024) ≯ 240		Hold control screen Set up data screen
3.	Punch CODE 2		Hold sub-class			show slide	
3a.		Punch another CODE 2	Hold sub-class			show slide	
4.	Press HOLD		Blank			hold slide	screen button returns

TABLE 1 : SWITCHING SYSTEM

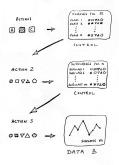


FIGURE 4