

CAL Progress Report: Jan 15 to April 15

Projects Completed:

- (a) Display driver (Standiford) - allows console operator to examine CM and ECS. More importantly it allows logical screens to be handed out to processes. Processes can ask for messages from the keyboard and write on logical screens. Keyboard commands control which two logical screens are displayed on the physical screens.
- (b) Interim disk directory system (Sturgis) - reflects ECS files up to the disk. It is a subprocess. It provides a two level file system (file name, user name) similar to KDF on the 940. It does not multiplex ECS space between processes; this is the function of the low level disk system.
- (c) The assembler COOL-AID (Malbrain, McJones) - an assembler with an algol-like syntax. The machine instructions, run time IFs and DOs and VFDs are debugged. Macros, BSS, ORG and assembly time IFs and DOs are not complete. The loader is designed but not coded. The debugger is designed but not coded. One man year is required to complete (and document) COOL-AID.
- (d) Copy (Gould) - convert a SCOPE file to an ASCII file.

Projects in progress or being started:

- (a) low level disk system (Lindsay, Redell) - target date debugging stage by late June.
- (b) directory system (McJones, Sturgis) - target date September.
- (c) card reader driver - (Standiford, Sturgis) - target date July.
- (d) editor (Gould, Gray) - target date June.
- (e) allocator and compactifier (Vaughn) - target date June.

Related projects:

- (a) BASIC (Bridge, Morris) - late summer
- (b) PL/1 - (Malbrain) ?
- (c) PL/N+1 (Gray, Wilson) - something running by mid-summer
- (d) APL (Kaufman) - interpreter is now running

COOL-AID has been dropped for lack of manpower. Malbrain needs it for PL/1 so it may be completed in a bastard form.

Low level disk system progress is slow and this is causing some depression among the troops. There is hope.

The editor is working out nicely. It will be useable by other systems (e.g., COOL-Aid, PL/N+1, APL).

I am quitting as director of CAL on June 1, 1970.