

AUG 3 1971

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INTEROFFICE MEMORANDUM

TO: Fred Gould
Stan Olsen

DATE: July 30, 1971

FROM: Gordon Bell

cc: Ken Olsen
Win Hindle

DEPT:

SUBJ: Bell, Clark and CMU in PDP-16 Manual

I spent two days with Wes Clark, and I believe he's still a little bit hurt (annoyed) about the way DEC (Clayton, and some others) handled the LAP-6 software. I told him that a manual would be available shortly on PDP-16, and he felt relatively strongly that there should be some recognition of me and CMU - despite the fact that I am a DEC employee and traditionally engineering is an anonymous business not an artistic one. I don't care but it would be a reasonable, possibly even a profitable thing to have a footnote on the first page which might read as follows:

"These computer modules are the effort of DEC's engineering group, which assumes the responsibility for their final characteristics. They are essentially those specified by Gordon Bell of Carnegie-Mellon University (CMU) and Digital Equipment Corporation. CMU Computer Science and Electrical Engineering Departments also contributed to their detailed design. The modules were also influenced by the Macromodules of Clark at Washington University, St. Louis. Some of the relevant papers which discuss their basis, use and design are:

C.G. Bell and J. Grason, "Register Transfer Modules (RTM) and Their Design," Computer Design, May 1971. pp 87-94.

C.G. Bell, J. Grason, S. Mega, R. VanNaarden and P. Williams, "Register Transfer Modules (RTM) For Higher Level Digital System Design," COSINE Sponsored Purdue 1971 Symposium on Applications of Computers to Electrical Engineering, April 1971.

C.G. Bell and J. Grason, "A Comparative Hardware-Software Design Study Using DEC Register Transfer Modules (RTM)": IEEE Computer Conference September 1971.

C.G. Bell and A. Newell, "The PMS and ISP Descriptive Systems for Computer Structures," 1970 SJCC, pp. 351-374

C.G. Bell and A. Newell, Computer Structures: Readings and Examples, McGraw-Hill Book Co., New York, N.Y. 1971.

W.A. Clark, "Macromodular Computer Systems," SJCC 1967, pp. 335-336 (introduction of a set of six papers, 11. 337-401 in same conference).

J. Eggert, "RTM Design" IEEE Computer Conference, September 1971.

bwf