

POUGHKEEPSIE

August 2, 1957

MEMO TO: Mr. J. C. Gibson

SUBJECT: Project 7000, Ultra Fast Disk - New Instructions

REFERENCE: Your file memo this subject of 7/8/7

The two instructions proposed in referenced memo would seem to have only small value thus raising the question as to whether the resulting increase in cost can be justified. This has been estimated to be about 10%.

The maximum reduction in access time would, under optimum conditions, be only 3/4 of the 30 m. s. mentioned since there would still be one block delay in the case where the first block addressed had just passed. The average would be half this figure or about 12 m. s. Unfortunately this gain in time might be completely lost at the end of a multiple track record depending on the location of the last block of data. This would reduce the average gain in time required to obtain a record from disk to approximately 6 m. s.

In view of the significant increase in cost and the small reduction in time together with the observation that this delay does not, with proper programming, reduce the overall efficiency of the system, we do not recommend adoption of the proposed instructions.


J. R. Lyon

JRL:ps

- cc: Mr. G. A. Blaauw
- Mr. F. P. Brooks
- Dr. W. Buchholz
- Mr. E. F. Codd
- Mr. J. D. Calvert
- Mr. S. W. Dunwell
- Mr. R. P. Fletcher
- Mr. R. A. Gregory

- Mr. J. E. Griffith ✓
- Mr. P. H. Howard
- Mr. H. A. Mussell
- Mr. D. W. Pendry
- Mr. D. W. Sweeney
- Mr. H. K. Wild
- Mr. W. D. Winger