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POUGHKEEPSIE  
Dept. 539, Bldng. 965  
April 11, 1958

**FILE MEMORANDUM**

**SUBJECT:** Gap-less Information in Real Time

**Reference:** My memo of April 8.

**By:** W. Buchholz

On closer examination of the Exchange operation, it turns out that there is a "hooker" in my earlier proposal of simulating a gap in the multiple mode. While reconsidering the question from a more fundamental point of view, we have come to the conclusion that we should adopt a different approach to chaining in the Basic Exchange which does not require "dummy" words. "Dummy" words will have to be retained in the High-Speed Exchange to maintain performance.

The Basic Exchange will now inspect the Chain Flag and automatically double the weight count when the Chain Flag is 1. This gives it time to do chaining in the single mode without introducing a dummy word.

Thus it will now be possible to create endless memory loops in the single mode, which avoids the need to simulate a gap. Gap-less information then poses no further problems.

WB/pkb

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