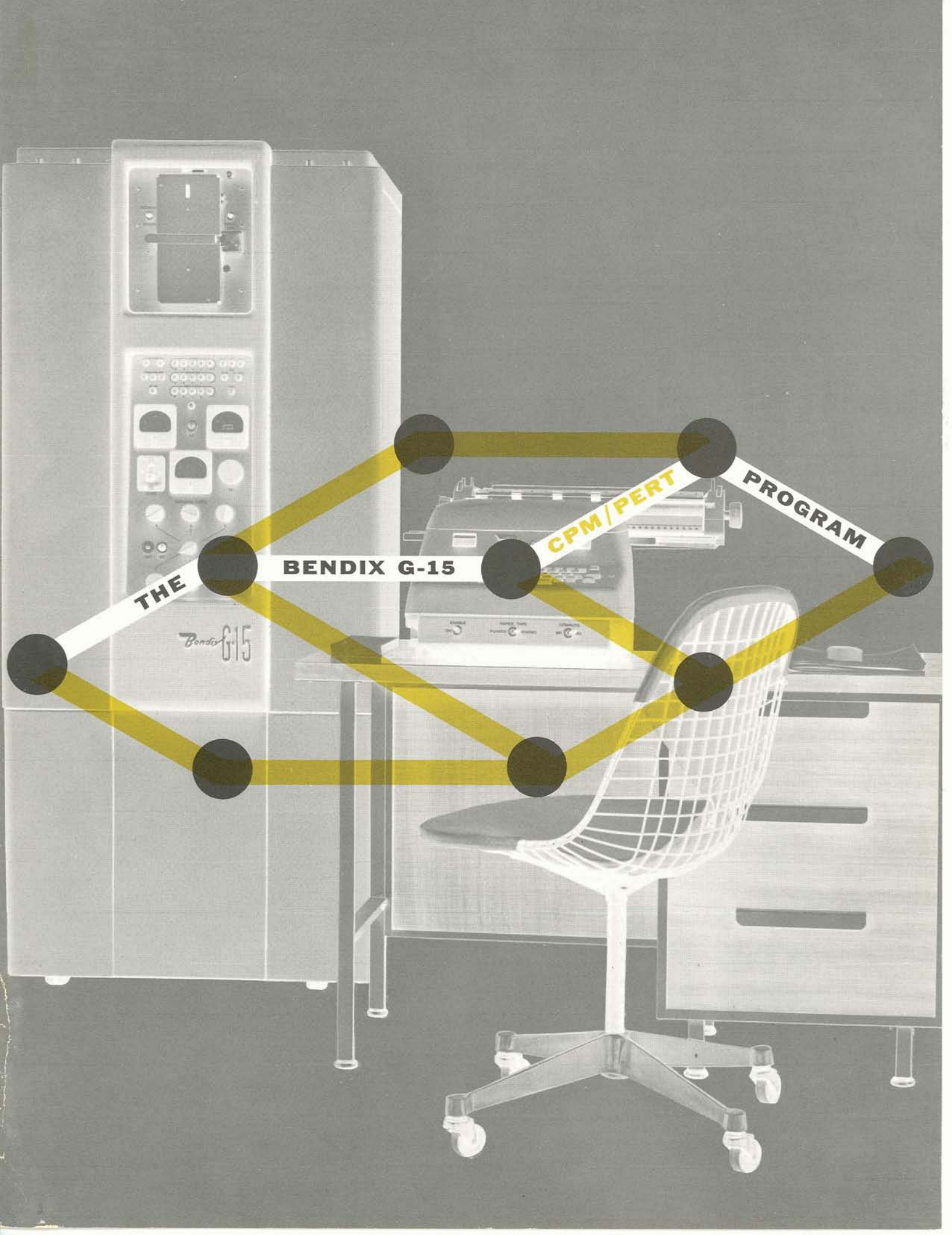
THE
BENDIX G-15
CPM/PERT
PROGRAM
Bendix G-15

PERT was originally developed for the Polaris missile program. It has proven so effective that its use is now a requirement in the obtaining of many military contracts. This effectiveness has also brought about wide acceptance of PERT techniques throughout industry.

Formerly restricted to the users of large-scale computer systems, CPM/PERT programming can now be handled by the Bendix G-15 computer . . . bringing large-system efficiency to the scheduling of complex, inter-related manufacturing and development activities.

CPM, the Critical Path Method, and PERT — Program Evaluation and Review Technique — are well-established as the best available means for applying network techniques of planning and scheduling to assure precise management control and reporting. The G-15 CPM/PERT program incorporates both . . . gives the user a choice of operating mode . . . and can be used with any G-15 configuration, including the computer/typewriter minimum system.

Input media for the G-15 CPM/PERT may be typewriter, Flexowriter-prepared decimal tape, computer-punched binary tape or punched cards. Output choices are typewriter, decimal tape for Flexowriter, punched cards or tabulator.

The program will handle 430 events and, in the CPM mode, 863 activities. In the PERT mode, it accommodates 431 activities. Activities are numbered sequentially during input for convenience, but they may be entered in any order. Computation time depends on the complexity of the network. Average times are 2 seconds per activity for CPM and 3 seconds for PERT. Output time varies with the medium used; punched cards or tabulator are the fastest means.

Output in the CPM mode includes all of these standard features:

Early Start Time — earliest time an activity can be started.

Early Finish Time — earliest time an activity can be completed.

Late Finish Time — latest time an activity can be completed without delaying project completion.

Late Start Time — latest time an activity can be started without delaying project completion.

Total Float — amount of time the start of an activity can be delayed without delaying project completion.

Free Float — amount of time the start of an activity can be delayed without delaying the start of any following activity.

Output in the PERT mode includes this data and also provides:

Expected time consumed by activity.
Standard deviation of activity.
Probability of completion by scheduled date.

SPECIAL PROGRAM FEATURES

The G-15 CPM/PERT program incorporates several features that increase flexibility and ease of use. It allows the use of multiple starting and ending events with independent schedule dates and updating without re-entering the entire program. No pre-sorting of cards is needed; they are accepted in any order. Events may also be numbered in any order.

THE G-15—SYSTEM & SUPPORT

With a reputation established by successful performance at more than 350 installations, the Bendix G-15 computer offers outstanding results per dollar invested. Investment in the G-15 brings such assurance as an average uptime — for all installations — of 97%.

This efficiency is enhanced by the most complete line of peripheral equipment available: multicode paper-tape readers, magnetic-tape units, punched-card coupler and tabulator, digital differential analyzer, universal code accessory, plotter and other special-purpose devices.

G-15 users have access to over 1000 pre-tested programs. The new CPM/PERT system is the latest addition to this series that includes such automatic programming aids as Intercom 1000, Intercard, Autocard, ALGO, AUTOPOINT 24 and many others — a full complement of general, interpretive, compiler and service routines. Programming assistance and service is provided by a nationwide network of specialists.

For more details of how the versatile G-15 computer systems can contribute to the effectiveness of your organization, check with your nearest district office. A Bendix computer specialist will be glad to assist you in every way possible.

PM/PERT PROGRAM

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