

A U T O N E T I C S
- - - - -
A DIVISION OF NORTH AMERICAN AVIATION, INC.
INDUSTRIAL PRODUCTS
3400 E. 70th Street, Long Beach, Calif.

December 7, 1959

RECOMP II TECHNICAL BULLETIN NO. 2

TITLE: PROGRAM DESCRIPTION FORMAT

PURPOSE: To provide a standard format for program descriptions.

EFFECTIVE DATE: December 7, 1959

REVISED: March 30, 1962

CONTENTS: Adherence to a standardized format in the documentation of a program facilitates the use of the program by personnel other than the originator. This bulletin outlines the format for program descriptions and should be used as a guide for contributing programs to the Program Library. Technical Bulletin No. 3 outlines the format for subroutine descriptions.

All completed programs are issued under a PROGRAM NUMBER assigned by Industrial Products Programming.

A program description will consist of the following parts:

Title Page
Table of Contents (if required)
Introduction
Method
Restrictions
Usage
Coding Information
Example

See Appendix I or II for a sample Title Page. The items on the Title Page are self-explanatory with the exception

of the PROGRAM CLASSIFICATION heading. The following program classifications will be used:

General
Demonstration
Executive and Control
Utility
Diagnostic
Service

A Table of Contents is recommended for a lengthy program description.

See Appendix III for the numerical format and detailed subheadings of the parts of a program description described below. See Appendix IV for layout sheets that facilitate program documentation.

The INTRODUCTION should contain a statement of the problem, circumstances giving rise to it, applications for its programmed solution, and any acknowledgment.

The METHOD section should discuss the technique for solving the problem, the accuracy of such a technique, and the equations or formulae used (if any). Derivations of unique solutions should be given. References that might aid the reader's comprehension should be included.

RESTRICTIONS on the method of using the program, the equipment required, and the additional routines or subroutines needed for the program must be stated. The range, scaling, location and extent of data must be given.

The section on USAGE should contain the operating instructions for the program. These instructions must be clearly defined. An explicit step-by-step procedure is recommended. Initially, all computer set-up configurations should be detailed, including sense switch settings, pre-set stops, typewriter margins, and tab settings. Input instructions, including data preparation, number of digits, and sequencing, must be indicated. Symbols used on input or output should be explained. The output format must be defined. Any error indications or stops must be given and re-start procedures explained in detail. If there are options as to type of problem, type of data permissible, or variety of output, the manner of handling these options should be outlined.

The section on CODING INFORMATION should contain the memory map, location of constants, temporary storage used, timing required for executing a standard sized problem, and the flow chart. For those who require detailed knowledge of the program coding, the program listing or coding sheets should be available upon request.

An EXAMPLE, a sample problem with input/output, should be provided. The sample problem might be an interesting actual problem, if it adequately demonstrates use of the program.

REFERENCES: None

INFORMATION TO: All Personnel Concerned

REVISED BY: H. M. Guss
Training and Sales Support

APPENDIX I

PROGRAM DESCRIPTION FORMAT

TITLE PAGE
(AUTONETICS)

A U T O N E T I C S

A DIVISION OF NORTH AMERICAN AVIATION, INC.
INDUSTRIAL PRODUCTS
3400 E. 70th Street, Long Beach 5, Calif.

RECOMP ____ PROGRAM NO. ____

PROGRAM TITLE:

PROGRAM CLASSIFICATION:

AUTHOR:

PURPOSE:

DATE:

Copyright 1962
Autonetics Industrial Products
A Div. of North American Aviation, Inc.
Long Beach, Calif.

PROGRAM DESCRIPTION FORMAT

TITLE PAGE
(USERS')

RECOMP _____ USERS' PROGRAM NO. _____

PROGRAM TITLE:

PROGRAM CLASSIFICATION:

AUTHOR:

PURPOSE:

DATE:

Published by

RECOMP Users' Library

at

AUTONETICS INDUSTRIAL PRODUCTS
A DIVISION OF NORTH AMERICAN AVIATION, INC.
3400 E. 70th Street, Long Beach 5, Calif.

DISCLAIMER

Although it is assumed that all the precautions have been taken to check out this program thoroughly, no responsibility is taken by the originator of this program for any erroneous results, misconceptions, or misrepresentations that may appear in this program. Furthermore, no responsibility is taken by Autonetics Industrial Products for the correct reproductions of this program. No warranty, express or implied, is extended by the use or application of the program.

PROGRAM DESCRIPTION FORMAT

PROGRAM TITLE:

1. INTRODUCTION

Statement of the problem
Applications
Acknowledgment (if any)

2. METHOD

Techniques
Accuracy
Equations or formulae
Derivations
References

3. RESTRICTIONS

Required equipment
Additional routines or subroutines needed
Range, scaling, location, and extent of data

4. USAGE

Computer set-up
Problem set-up, data preparation
Storage requirements
Sequential operating instructions
Symbols used
Output format
Error stops
Re-start procedures
Options available

5. CODING INFORMATION

Location of constants
Location of subroutines
Temporary storage used
Timing
Flow chart

6. EXAMPLE

Sample problem with input/output

TECHNICAL BULLETIN NO. 2

APPENDIX IV



DATE:

RECOMP _____ PROGRAM NO. _____

PROGRAM TITLE:

PROGRAM CLASSIFICATION:

AUTHOR:

PURPOSE:

2. METHOD (continued)

3. RESTRICTIONS (Components Required; Range, Scaling, Location, Extent of Data; Accuracy; Timing (if Excessive); Other Routines Required)

4. USAGE (Computer Set-Up; Data Preparation; Storage; Sequential Operating Instructions; Symbols; Output; Error Indication; Options; Re-start Procedure; Options)

4. USAGE (continued)

5. CODING INFORMATION (Constants; Memory Map; Temporary Storage; Timing)

6. EXAMPLE (Sample Problem with Input/Output)