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RELEASE INFORMATION, FORTRAN-78,  
RELEASE 1.3.0-990

TEXAS INSTRUMENTS	drawing number
INCORPORATED	2308802-9901
DATA SYSTEMS GROUP	
	REV. *A SHEET 1 OF 4

## PREFACE

DNOS FORTRAN-78 release 1.3.0 is for installation on Business System computers or DS990 computers running the DNOS operating system. It supports compiling, linking and executing Fortran programs under the DNOS operating system and executing Fortran programs in a stand-alone environment without operating system support.

This Release Information document contains important information concerning the 1.3.0 release of DNOS FORTRAN-78. It describes all software and documentation problems known to exist at the time of the release. This information should be made available to all users of DNOS FORTRAN-78.

If you are a current subscriber to DNOS FORTRAN-78, you also receive the DNOS FORTRAN-78 1.3.0 Update Information, part number 2234354-9901. The Update Information describes important differences between this release of DNOS FORTRAN-78 and the previous release.

For instructions on installing DNOS FORTRAN-78 on your system, consult the DNOS FORTRAN-78 Object Installation, part number 2308765-9701, provided with the software kit.

## SECTION 1

## KNOWN PROBLEMS

This section contains a list of problems which are known to exist in DNOS FORTRAN-78 1.3.0. Software Trouble Report (STR) numbers are included to aid in monitoring the problem status. Patch fixes are often made to correct problems between major releases. Contact your customer representative to obtain FORTRAN-78 patch information.

## 1.1 COMPILER PROBLEMS

1. STR 14221. The compiler does not diagnose the appearance of an assumed size dummy array without subscripts in an I/O list. The syntax is accepted, but only the first element of such an array is read or written.
2. STR 15150. If a real dummy argument of a subprogram is assigned to itself, the assignment is done incorrectly and a meaningless value is assigned to the variable.
3. STR 16081. Incorrect code may be generated under the following circumstances:
  - a. A logical IF contains an assignment statement of the form  $\langle \text{array element} \rangle = \langle \text{array element} \rangle + \langle \text{expression} \rangle$  and
  - b. The logical IF appears in a subroutine or function subprogram and
  - c. The array is a dummy argument and
  - d. The array subscript expression is the same on both sides of the assignment statement and is a variable which is also a dummy argument and
  - e. The B (array bounds checking) compiler option is not used.

## 1.2 RUN TIME PROBLEMS

1. STR 12485. If a run-time error occurs in a subprogram which is linked into an overlay, the addresses displayed by the run-time trace back may be incorrect.

## 1.3 MATHSTAT-78 PROBLEMS

No MATHSTAT-78 problems are known at this time.

## 1.4 DOCUMENTATION PROBLEMS

The MATHSTAT-78 Programmer's Reference Manual, Part number 2268687-9701, contains the following typographical errors:

1. On page 10-8, the line which reads  
"CALL HIST(DATA,NVALS,SCALE,IHEADS,LUNO,ITEMP)"  
should be changed to read  
"CALL HIST(DATA,NVALS,SCALE,IHEADS,LUNO,TEMP)"
2. On page 10-8, under the list of parameters for the HIST subroutine, the last parameter (ITEMP) should be changed to read as follows:  
"TEMP - Character\*2 array, dimension 16. Temporary working array."
3. On page 10-8, the description of the parameter LUNO should be changed to read as follows:  
"INTEGER\*2 variable or constant. The Fortran logical unit number which has been assigned to the output file to which the histogram is being sent."