



# Software Product Description

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PRODUCT NAME: OS/8 TSAR Version 1

SPD 5.5.1

DESCRIPTION:

TSAR is a modular FORTRAN IV program for performing Time Series Analysis and Reduction of laboratory data. It operates under the OS/8 Operating System. It is designed to acquire, manipulate, display, plot and report experimental data in a form that is easy to use yet provides all the capability needed to solve many scientific and engineering problems. TSAR can perform many of the operations normally used for data reduction, and has several features which provide sophisticated Fourier Analysis techniques. The modular design of TSAR and the fact that it is written in FORTRAN make it easy for the user to add special purpose functions useful to a specific application.

TSAR can operate in three modes: interactive, incremental compile, and compile. In the interactive mode, each command is interpreted and executed as it is entered from the console terminal. In the incremental compile mode, each command is interpreted and stored in memory as it is entered and execution of the procedure begins after all commands are entered (up to 25), under operator control. TSAR consists of two separate FORTRAN routines; TSAR itself which does the actual laboratory analysis and TSARINA which creates, updates and maintains the file of procedure for TSAR. In the compile mode, a procedure is prepared off-line via TSARINA and then may be executed by a single command to TSAR. Each procedure can contain up to 25 commands, however, it may chain to another procedure.

MINIMUM HARDWARE REQUIRED:

Any OS/8 LAB-8/E or PDP-12 configuration with 16K words of memory.

OPTIONAL HARDWARE SUPPORTED:

Additional memory to a system total of 32K words (user must modify overlays)

FFP12-AP, FPP12-AE Floating Point Processor

(A disk such as the RK8E is recommended for the system device.)

PREPREQUISITE SOFTWARE:

One of the following:

OS/8 Operating System and OS/8 FORTRAN IV

Both on Paper Tape

OS/12 Operating System and OS/12 FORTRAN IV

Both on LINCtape

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OPTIONAL SOFTWARE SUPPORTED:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

C, Software Support will be provided as listed in the Software Support Categories Addendum to this SPD.

UPDATE POLICY:

No updates are planned for this product.

ORDERING INFORMATION:

This software is furnished under a license for use on a single CPU and can be copied and modified (with inclusion of DIGITAL's copyright notice) only for use on such CPU, except as may otherwise be provided in writing by DIGITAL.

The following key (A,B,C) represents the distribution media for the product and must be specified at end of "Q" number i.e., QF070 - CB = binaries on Paper Tape.

A - LIN Ctape

B - Paper Tape

C - DE Ctape

Standard Options:

QF070-C\_ Single-use license, binaries, documentation, no Support Services (media: B,C).

QK070-C\_ Single use license, binaries, documentation, no Support Services (media: A).