

**PACKAGE ID** - 000182AL00001 PDS SHRINK

**KWIC TITLE** - PDS SHRINK

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**LIMITATION CODE** -UNL                   **AUDIENCE CODE** - UNL

**COMPLETION DATE** - 09/01/1993   **PUBLICATION DATE** - 09/01/1993

**DESCRIPTION** - This code enables one to display, take line-outs on, and perform various transformations on an image created by an array of integer\*2 data. Uncompressed eight-bit TIFF files created on either the Macintosh or the IBM PC may also be read in and converted to a 16 bit signed integer image. This code is designed to handle all the formats used for PDS (photo-densitometer) files at the Lawrence Livermore National Laboratory. These formats are all explained by the application code. The image may be zoomed infinitely and the gray scale mapping can be easily changed. Line-outs may be horizontal or vertical with arbitrary width, angled with arbitrary end points, or taken along any path. This code is usually used to examine spectrograph data. Spectral lines may be identified and a polynomial fit from position to wavelength may be found. The image array can be remapped so that the pixels all have the same change of lambda width. It is not necessary to do this, however. Lineouts may be printed, saved as Cricket tab-delimited files, or saved as PICT2 files. The plots may be linear, semilog, or logarithmic with nice values and proper scientific notation. Typically, spectral lines are curved.

**PACKAGE CONTENTS** - Media Directory; Software Abstract; User's Manual;

**SOURCE CODE INCLUDED?** - No

**MEDIA QUANTITY** - 4 3.5 Diskettes

**COMPUTER** - APPLE MACINTOSH

**OPERATING SYSTEMS** - Machine Dependent

**PROGRAMMING LANGUAGES** - FORTRAN

**SOURCE CODE AVAILABLE (Y/N)** - N

**HARDWARE REQS** - MAC II 68020, 68030, 68040, coprocessor required.

**REFERENCES** - PDS SHRINK User's Manual.

**ABSTRACT STATUS** - Submitted 1992. Released AS-IS September 9, 1993.  
Revision submitted September 28, 1993. Released AS-IS October 12, 1993.

**SUBJECT CLASS CODE** - N

E S T S C  
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**KEYWORDS** -

COMPUTER PROGRAM DOCUMENTATION  
P CODES  
IMAGE PROCESSING  
DENSITOMETERS

**EDB SUBJECT CATEGORIES** -  
990200

**SPONSOR** - DOE/DP

**PACKAGE TYPE** - AS - IS