

**PACKAGE ID** - 000641IBMPC00 LADS

**KWIC TITLE** - HYPER-Channel Real-Time Monitor Analyzer

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

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**DESCRIPTION** - LADS is a real-time monitor and analyzer of Network Systems Corporation's HYPER-channel which passively collects data from up to four HYPER-channel trunks via HYPER-tools' Enhanced HYPER- channel Monitor Device (EHMD) cardset. The HYPER-channel data are collected in a real-time mode with a display updated as soon as data from the HYPER-channel trunks are acquired. The collected data are collated and displayed in a variety of formats through user-friendly menus. One display mode filters the raw data to a to-from count table in memory for each adapter. This table is periodically saved to disk and can be replayed for analysis at a later time. Other display modes display the trunk data in their raw form without any filtering. All the display types are available once LADS is running.

**PACKAGE CONTENTS** - Software Abstract; NESC Note; Media Includes Source Code, Object, Sample Problem, Machine-Readable Documentation, Control Information;

**SOURCE CODE INCLUDED?** - Yes

**MEDIA QUANTITY** - 1 5.25 Diskette

**METHOD OF SOLUTION** - LADS displays data derived from viewing the frame or lowest level of communication on the HYPER-channel trunk. When a host CPU desires a communication with another CPU, the two HYPER-channel adapters begin conversing in their protocol, one frame at a time. Each frame is timestamped with a microsecond clock by the trunk interface boards and the monitor examines these frames to determine which two CPU's are communicating, the frequency of that communication, and the general health of the data transfer and the total HYPER-channel network. LADS displays these data in several text or graphical formats.

**COMPUTER** - IBM PC

**OPERATING SYSTEMS** - DOS 3.1

**PROGRAMMING LANGUAGES** - Microsoft C 5.0

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**SOFTWARE LIMITATIONS** - Maxima of - 8 display tasks, 4 bar displays on the screen simultaneously

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

**OTHER PROG/OPER SYS INFO** - LADS requires the Media Cybernetics Halo Graphics Library Version 2.268 or later and the Microsoft C Compiler Version 5.0 or later; this software is not included. The LADS library assembly language routines are included as an object file only.

**HARDWARE REQS** - The HMD (HYPER-channel Monitor Device) is an IBM PC/AT style machine consisting of two functional parts; the trunk interface boards that gather data from the HYPER-channel trunks and present it in the IBM PC/AT memory and LADS which runs on the PC/AT to analyze and display the trunk data. LADS requires an IBM PC/AT, or compatible computer, with a 16-bit expansion bus and an 80287 math coprocessor. Approximately 109 Kbytes of memory are required.

**REFERENCES** - LADS, NESC No. 9502, LADS Flexible Disk Cartridge Description, NESC Note 90-08, October 22, 1989.

**ABSTRACT STATUS** - Abstract first distributed October 1989. IBM PC/AT version submitted August 1988.

**SUBJECT CLASS CODE** - P

**KEYWORDS** -  
COMPUTER PROGRAM DOCUMENTATION  
L CODES  
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**EDB SUBJECT CATEGORIES** -  
990200

**SPONSOR** - DOE/DP

**PACKAGE TYPE** - AS - IS