

PACKAGE ID - 000104SUN0000 CADUSAGE

KWIC TITLE - Computer Aided Design Product Usage

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 10/01/1991 **PUBLICATION DATE** - 10/01/1991

DESCRIPTION - The purpose of CADUSAGE.COM is to monitor site-wide concurrent usage of Structural Dynamic Research Corp. (SDRC) software licenses across three different computing platforms. The task of the program is to determine usage loads and limits. The output of this program is a summarized listing of SDRC usage. The program runs in one of two fashions that is determined by a command line option, 's'. Normal execution of CADUSAGE.COM will remotely execute a Bourne Shell Script or a Digital Command Line program. Each remote execution performs a standard SDRC Configuration System File (CSF) dump. The results are collected in one file and stored for summary at a later time. If the 's' option is specified on the command line, then a summary of all previous files of CADUSAGE.COM and the current files is performed. The resulting report shows the concurrent usage of every SDRC product at the time of CADUSAGE.COM execution.

SOURCE CODE INCLUDED? - No

MEDIA QUANTITY - Media Directory; Software Abstract; NO USER'S MANUAL AVAILABLE;/ 1 3.5 diskette

METHOD OF SOLUTION - CADUSAGE.COM will execute a remote command program on every SDRC installation. Each remote command program creates a CSF file using software provided by SDRC. The CSF file is copied from the remote machine to the local machine where CADUSAGE.COM is running. All CSF files are appended into one CSF file that represents current SDRC usage. The appended CSF file is read into a C-structured binary tree in order of SDRC product number. The nodes of the tree are C-structures that include the product name, total number of seats licensed and total number of seats currently being used. Each entry of the CSF file is read into the summary section of the program and added to an existing node of the tree. Once all CSF file data has been entered into the tree, the tree is output to show maximum installed licenses and concurrent usage.

COMPUTER - SUN

OPERATING SYSTEMS - SunOs 4.1; Sun Microsystems Inc.

PROGRAMMING LANGUAGES - Bourne Shell Script; DCL; C

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SOFTWARE LIMITATIONS - The accuracy of the summary output from CADUSAGE.COM is limited to the accuracy of output provided by SDRC. All summary data is referenced from the information that the CSF dump command produces.

SOURCE CODE AVAILABLE (Y/N) - N

RELATED SOFTWARE - CADUSAGE.COM utilizes a program executable named CSFDMP.EXE that is distributed to all SDRC customers. It is CSFDMP.EXE that produces the four column output that is summarized by CADUSAGE.COM. Multinet network software is also utilized to perform remote executions and network file copies.

OTHER PROG/OPER SYS INFO - CADUSAGE.COM utilizes Multinet commands to perform network activity. CADUSAGE.COM will not function if Multinet is not licensed and installed. As noted in (Related Software) the proprietary software named CSFDMP.EXE, distributed by SDRC to all software customers is utilized by CADUSAGE.COM. It is assumed that SDRC products are installed and in use when CADUSAGE.COM is being used.

HARDWARE REQS - CADUSAGE.COM requires SunOs Version 4.1 or Silicon Graphics Version 3.2.1 operating systems. Standard Unix commands were utilized.

TIME REQUIREMENTS - The time required to perform a complete summary is dependent on the size of the load. For example, with 20 installations would typically take ten minutes.

REFERENCES - NONE

ABSTRACT STATUS - Submitted on Nov. 7 1991.

SUBJECT CLASS CODE - M

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
C CODES
PROGRAMMING LANGUAGES
COMPUTER-AIDED DESIGN
PERSONNEL MONITORING

EDB SUBJECT CATEGORIES -
990200 990100

SPONSOR - DOE/CO

PACKAGE TYPE - AS - IS