Craig Rutledge - Open Source iSeries Tools (JCRCMDS)

FREE (no cost) rpg Free Format source using the Free Software Foundation license.

The JCRCMDS library has been featured many times in the Iseries ClubTech Newsletter, recently JCRHFD and JCRLKEY articles at MC Press Online, referenced in the IBM Redbook Modernizing IBM i Applications from the Database up to the User Interface and Everything in Between, and previously a commercial grade product at Rochester Initiative. The library continues to be a practical set of API-based utilities to really help AS/400, Iseries and System i Programmers.

SourceForge Project! RDi/WDSCi plugins for JCRCMDS.com. First plug-in is JCRHFD (H F D specs free format) plugin written by Thomas Raddatz. This will be a great way to transition the jcrcmds tools into Rdi environment. If you wish to contribute plug-ins (and one day I hope every jcrcmds source utility has a plug-in!) please contact to add you as a project contributor.

V7.3 with current CUME tapes installed. Release August 28, 2023

Help text is provided with each utility. See Download link for install instructions.

Free H F D

JCRHFD	Convert fixed format H, F and D specifications into free format DCL-* statements from selected member into new member.
JCRPROTO	Create free format DCL-PI and DCL-PR statements from selected member fixed format *ENTRY and CALL/PARM opcodes into new member.
JCRPRGEN	Generate free format DCL-PR prototype in selected member to call selected program.
JCRNUMB	Automatically re-indent your free format code based on logic structures. Updated to indent DCL-* structures. Number the RPG structure statements in your source code. (not for use on v7.3 **free yet. I have some work to do)
JCRSDENT	Show Source Indentation. Updated to show indentation lines for DCL-* structures

Outline View

JCRRFIL	File name / Record Format Xref for RPG source (you NEED this one!). Updated to read DCL-F source.
JCRRFLD	Field names, length and attributes used in selected RPG source code.
JCRIND	Indicator list used in *RPG* / CL* / DSPF or PRTF source members. (This utility is now celebrating its 35th birthday. Think about that for a minute.)
JCRSUBR	Subroutine List has been replaced with RDI Visualize Application Diagram.

Source

JCRDDL	Generate Data Definition Language (DDL) source member from selected file object.
JCRANZD	DSPF screen layout with field names report .
JCRANZO	O spec print layout with field names report. Now reads DCL-F.
JCRANZP	PRTF layout with field names report
JCRCALL	Quick command prompt created from any programs entry parm field names/attributes.
JCRFSET	Scan File Set where used. Lists all RPG/CLP source members using selected PF and any associated LFs. Updated to read DCL-F source.
JCRLSRC	Print source code lib/file/member and module info for every *pgm object in selected library.
JCRPRTF	Generate DDS prtf source from RPG4 output specs.
JCRRTVRPG	Retrieve source for any RPGLE object compiled with DBGVIEW *LIST or *ALL.
JCRSMLT	Powerful source scan utility! Scan multiple source files / multiple strings. New CHOICE keyword allows unlimited file selection
JCR4MAX	RPG4 source conversion to full RPG4 syntax. A must-have if you still have oldstyle code.
JCRFREESS	Calc spec listing showing side-by-side fixed and free format source.
JCR5FREE	Fixed format C spec conversion to free formatted source. Read and understand a Path to /Free before using this utility.

File

JCRFD	Expanded File Description with view Keys, Select/Omit, Data Base Relations, Members, Record Formats, and Trigger information.
JCRFFD	File field description print / display / outfile / rpgle source. Detail key fields and search field/text capabilities have been added.
JCRLKEY	Find logical with your selected key field(s)!
JCRNOTPOP	List of fields in selected data file that are not populated.

Dtax

JCRDQD	Data queue description display.
JCRDQE	Data queue entries display without disturbing the entries. Now uses *TERASPACE storage model for unlimited data queue entries.
JCRDTAARA	List *DECimal Data Area values and Distance to Rollover

Object

JCRBND	Outputs a list of procedures/symbols that are exported by a selected *BNDDIR, *SRVPGM or *MODULE. Great tool for finding where procedure names are located.
JCRDUMP	Count/Analyze RPG Dump spooled files.
JCRJOBDL	Find JOBDs with selected library on Library list . Run before deleting library.
JCRJOBDQ	Find JOBDs using selected JOBQ.
JCRJOB	List selected Job Names with Options (including slick file I/O monitor).
JCRLOG	Never press F9 to retrieve executed commands again! Great timesaver.
JCROBJD	Expanded work with objects display. Powerful cleanup assist tool.
JCROLCK	WRKOBJLCK with options to ENDJOB *IMMED and SNDBRKMSG to user. Now with job I/O monitor to see is user is moving records.
JCRPATTR	Prompt CRTPRTF with existing print file creation attributes.
JCRRECRT	Load existing command values for recreate.
JCRSPLF	List selected Spool Files with Options. Includes ability to duplicate spooled files and override creation attributes.
JCRSSQL	Scan interactive STRSQL sessions for selected SQL statements!
JCRUFIND	List User Spaces containing selected strings. Very handy for user space analysis
JCRUSPACE	View selected User Space. Very handy for user space analysis

IFS Drive

JCRIFSCPY	Subfile of entries in your IFS directory! You can select to copy to iSeries. Also allows utilities packaged by XMLGEN to be installed directly from your IFS drive.
JCRIFSMBR	Copy selected source member to your IFS directory. After execution you will have txt file and a .zip file of the member.
JCRIFSSAV	Copies a selected savf to a selected directory on the IFS drive. Then uses the Qshell JAR command to create a .zip file from the copied source member.

Netf

JCRNETFF	Send Multiple Network Files To Multiple Userids
JCRNETFM	Send Multiple Network Members To Multiple Userids
JCRNETQ	Send network all spooled files in a selected outq.

System Info

JCRPARTI	Returns system name, serial number, partition number (very important for licensing this days), OS version, User, and Job Name.

XML

Execute cmd JCRXML to run these tools.

XMLGEN	Generate XML documents for transfer (like those on this page).
XMLPREVIEW	Easy preview of install objects in an utility, then easy install!
XMLSVIEW	Developers: Easy view of XMLGEN script member in a subfile.
XMLSRCFIL	Load all members of selected source file into single XML member.

Sundry

Execute cmd JCRSUNDRY to run these tools.

JCRSBSDR	Generate report comparing pool IDs defined in SBSD to pool IDs actually used by routing entries. Helpful when trying to clean up sbs definitions.
JCRMRBIG	Returns big characters (12 X 13) for passed in 10 char string. Used in production to return heading user profile data for spooled file distribution. Includes called program and example print program.
JCRHEXCHR	Shows a subfile of the hex/biton values to generate all valid screen characters.
JCRF7	SEU Exit Program that will split/combine lines while in a SEU session. Big time saver!
JCRLICUSE	Number of licenses available and who has a lock on a license for 3rd party software.
JCRUSREMLR	User profile retrieve email address list.
JCRUSERS	Search user profiles for Jodb, text etc.. show last signon date
JCRUSRAUT	List class and special authorities of seleted user profiles
JCRJOBD	Search Job Descriptions for Library, Outq, Initial Program etc..

Animations

Execute cmd JCRSUNDRY to run these animations. If too fast/slow on your system, adjust milliseconds in API usleep call.

JCRZANIM0	Full screen binary clock showing hours, minutes and seconds.
JCRZANIM3	Raise the flag by repositioning a window with overlays.
JCRZANIM4	Have your dumb buddy sit on the right side of your monitor then run this classic I Am With Stupid finger pointer
JCRZANIM5	Random starfield pays tribute to Star Trek opening tag line.
JCRZANIM6	Racquetball Cutthroat Server Rotation

Games

Visit the Games page for several entertaining 2 and 3D programs.

Execute cmd JCRGAMES to access these programs.

BATTLESHIP	It started as a simple program for testing functions as two dimensional array indexes. Got way out of hand mutating into full blown game pitting you against the power of the iSeries.
BLACKJACK	Beat the house with this version of 21. Three dimensional array function forms the card faces.
CRIBBAGE	The most complex game code ever written for the iSeries. Unique hand scoring system shows card sets and point values. Robust strategy optimization routines. If you like Cribbage, you will be amazed by this one.
PYRAMID	Pyramid variation of Solitaire for the iSeries!. Addictive fun. Select all pairs of cards scoring 13 to win. I use this game when I am thinking.
RUBIKSCUBE	Rubiks gurus check out the Inductive Rules by Peter Suber.
VIDEOPOKER	Uses a hash table and the random number API to sort a deck of cards. Also uses the concept of implicitly defined arrays as DS subfields of defined arrays.
TICTACTOE	2d array indexing example.
YAHTZEE	Classic dice game
MINE SWEEPER	A game submitted by Tibor Erdos in Hungary.

Your feedback on making your own life easier with these tools is ALWAYS appreciated. Thanks to contributers from around the world, who have made excellent suggestions for improvement or enhanced functionality to meet their specific requirements. This feedback continues to make these tools better for me and everyone else who uses them.

Back to Utilities.   SiteMap.   API Cross Reference.   Download Page   Supporting and Reciprocal Links   Coding Standards originally based on Bryan Meyers RPG IV Jump Start book.

Last modified June 2nd, 2022.

Below is me and my Softail Heritage Classic.