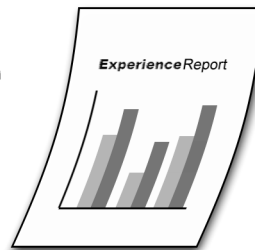


iSeries



Job Attributes

Experience Report



iSeries



Job Attributes

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Work management job attributes

There are several Work Management interfaces that can be used to retrieve information about jobs. The same job attribute may be available on several different user interfaces. Determining the best interface to use for a particular piece of information can be difficult. This experience report provides a summary of information to make it easier to determine which interfaces to use when dealing with job attributes.

“Recommended job APIs”

This information provides recommendations on which work management job APIs should be used for various tasks.

“Job attribute cross reference table” on page 2

This information provides a table with all the job attributes and the external user interfaces on which those attributes can be found.

Recommended job APIs

There are many Work Management APIs that are available on OS/400^(R). In particular, there are six different APIs that can be used to retrieve information about jobs and threads. It can be confusing to determine when to use each API. This information provides some recommendations for using these APIs.

The APIs that retrieve job or thread information are as follows:

- List Job (QUSLJOB)
- Open List of Jobs (QGYOLJOB)
- Open List of Threads (QWCOLTHD)
- Retrieve Current Attributes (QWCRTVCA)
- Retrieve Job Information (QUSRJOB)
- Retrieve Thread Attributes (QWTRTVTA)

Retrieving information about a single job

If you need to retrieve information for a single job, use the Retrieve Job Information (QUSRJOB) or the Retrieve Thread Attributes (QWTRTVTA) API. The Retrieve Job Information returns job-scoped information and is appropriate for a single-threaded job or information about the primary thread of a job. If you need to retrieve information for a thread in a multi-threaded job, the Retrieve Thread Attributes API is appropriate.

QUSRJOB is format-based and QWTRTVTA is key-based. The amount of information or specific values needed can influence the decision about which API should be used. Multiple keys can be specified with one API call while multiple formats need multiple API calls.

Although the List Job (QUSLJOB) and Retrieve Current Attributes (QWCRTVCA) APIs can also be used to retrieve information about a single job, these APIs may not return all the information available and it is recommended to not use these APIs for getting job attribute information.

The Open List of Jobs (QGYOLJOB) API can be used to get information for a single job, but this API is intended to deal with lists of jobs and it would be inefficient to use this API to get information for just one job.

The Open List of Threads (QWCOLTHD) API retrieves the thread attributes for one or more threads associated with a single job. Use this API to get information about a set of threads for a job.

Both the Open List of Jobs and the Open List of Threads APIs provide sorting capabilities.

Getting information about a set of jobs

If you need to retrieve information for a set of jobs, use the Open List of Jobs (QGYOLJOB) API. This API gets the list of jobs and the attributes for each job. The List Job (QUSLJOB) API provides a similar interface, but this API may not return all the information available and it is recommended to not use of this API for getting job attribute information.

If you simply want to retrieve a list of jobs with no additional information, use the List Job (QUSLJOB) API. With this approach, other APIs, such as Retrieve Job Information (QUSRJOB1) or Retrieve Thread Attributes (QWTRTVTA) can be used to get additional information for a specific job. This approach has less overhead and a simpler interface than the Open List of Jobs API.

Job attribute cross reference table

This table provides a cross-reference for all job attributes that are available on the various work management interfaces. This is useful since there is no similar cross-reference of all the job attributes in the Information Center.

For each attribute, you can determine which API the attribute can be accessed from and which format to use. For those attributes with keys, the key is also identified by the attribute name (not all attributes have keys) . In addition to the job attribute information for the APIs, the table also includes CL commands and display interfaces for each attribute. This table is useful to determine what interfaces are available to access the various job attributes.

For each of the User Interfaces (listed in the columns), the meaning of the information in the table is as follows:

- In - This information is provided as Input to an API
- GRD - General Return Data on an API
- ### - For APIs, this is the format on which this information is returned (e.g., 100, 200 ...)
- Y - Indicates the information is available on CL Commands, Green Screen panels, and/or GUI panels
- Blank - The attribute is not available on that user interface

A description of each attribute can be found at the [Work Management API Attribute Descriptions \(WMAAttrDesc\)](#).

The job attributes in this table are not in alphabetical order. The first attributes listed are those that are used as input for most of the APIs. The remaining attributes are generally in alphabetical order, but related attributes are grouped together. For example, all attributes that are related to signals are grouped together, although the attribute name may not begin with 'signal'.

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Job name (1009)	In 100 200	In 100 200 300	In GRD 100	In 400 500 600 700 750 800 900 1000	In 100 200 300	100	In	Y	Y	Y			Y	Y
Job user (1009)	In 100 200	In 100 200 300	In GRD 100	In 400 500 600 700 750 800 900 1000	In 100 200 300	100	In	Y	Y	Y	Y	Y	Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Job number (1009)	In 100 200	In 100 200 300	In GRD 100	In 100 200 300 400 500 600 700 750 800 900 1000	In 100 200 300	100	In	Y	Y			Y	Y	
Internal Job Id	100 200	100 200	In GRD 100	In 100 150 200 300 400 500 600 700 750 800 900 1000	In 100	100	In							

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Active job status (0101)	200	300		200	100								Y	Y
Active job status for jobs ending (0103)	200	300		200	100									
Allow multiple threads (0102)	200	200		400	100	100				Y	Y		Y	Y
ASP group information (0104)				400	100 200	300	300	Y		Y	Y		Y	Y
Break message handling 0201)	200	200		400	100	100	100 200	Y	Y				Y	Y
Cancel key (0301)	200	200		600		100								
Character identifier control (0311)	200	200		400	100	100	100 200 300	Y	Y			Y	Y	Y
Client IP address - IPv4 (0318)				600			100 200							
Client IP address - IPv4 or IPv6 (0326)					100									Y
Coded character set ID (0302)	200	200		400	100	100	100 200 300	Y	Y	Y		Y	Y	Y
Completion status (0306)	200	200		400										
Country or region ID (0303)	200	200		400	100	100	100 200 300	Y	Y	Y		Y	Y	Y
Current library if it exists (0310)				700 750	200	200	300	Y		Y		Y	Y	Y
Current library existence				700	200	200								

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Current system pool identifier (0307)	200	200		200		100								
Current user profile (0305)	200	200 300	100	600	100	100		Y					Y	Y
Date and time job became active (0401)	200	200		400	100	100		Y					Y	Y
Date and time job ended (0418)	200	200		400	100									Y
Date and time job entered system (0402)	200	200 300		400	100	100							Y	Y
Date and time job scheduled to run (0403)	200	200		400	100	100	100 200		Y	Y				Y
Date and time job was put on this job queue (0404)	200	200		300	100									Y
Date format (0405)	200	200		400	100	100	100 200	Y	Y				Y	Y
Date separator (0406)	200	200		400	100	100	100 200	Y	Y				Y	Y
DBCS-capable (0407)	200	200		600	100	100								Y
DDM conversation handling (0408)	200	200		400	100	100	100 200	Y	Y		Y		Y	Y
Decimal format (0413)	200	200		400	100	100	100 200	Y	Y				Y	Y
Default coded character set ID (0412)	200	200		400	100	100		Y					Y	Y
Default wait (0409)	200	200		100 150	100	100	100 200	Y	Y				Y	Y
Device name (0411)	200	200		600										

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Dev recovery action (0410)	200	200		400	100	100	100 200	Y	Y		Y		Y	Y
Disk I/O count during the elapsed time (job) (0414)		300		1000									Y	Y
Disk I/O count - total for the job (0415)		300			100									Y
Disk I/O count during the elapsed time - asynchronous I/O (job) (0416)		300		1000										Y
Disk I/O count during the elapsed time - synchronous I/O (job) (0417)		300		1000										Y
Disk I/O count during the elapsed time (thread) (0419)			100		300									Y
Disk I/O count - total for the thread (0420)			100		100								Y	Y
Disk I/O count during the elapsed time - asynchronous I/O (thread) (0421)			100		300									Y
Disk I/O count during the elapsed time - synchronous I/O (thread) (0422)			100		300									Y
Elapsed time			GRD	1000	300								Y	Y
End severity (0501)	200	200		500	100	100					Y		Y	Y
End status (0502)	200	200 300		600	100	100		Y						
Exit key (0503)	200	200		600		100								
Extended object attribute thread is waiting on (0504)					100									Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Object type of entity thread is waiting on (1503)					100									Y
Name of entity thread is waiting on (1407)					100									Y
Library of entity thread is waiting on (1206)					100									Y
Type of entity thread is waiting on (2015)					100									Y
Function name (0601)	200	200 300		200	100								Y	Y
Function type (0602)	200	200 300		200	100								Y	Y
Group profile name (0702)	200	200		600	100	100						Y		Y
Group profile name - supplemental (0703)	200	200		600	100	100						Y		Y
Inquiry message reply (0901)	200	200		400	100	100	100 200	Y	Y	Y	Y		Y	Y
Interactive response time - total during elapsed time (0904)		300		1000										Y
Interactive transactions - count during elapsed time (0905)		300		1000										Y
Job accounting code (1001)	200	200		400	100	100	100 200 300	Y			Y	Y	Y	Y
Job date (1002)	200	200		300	100	100	100 200	Y	Y	Y	Y		Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Job description name (1003)	200	200		400	100					Y	Y	Y	Y	Y
Job description library name (1003)	200	200		400	100					Y	Y	Y	Y	Y
Job end reason (1014)	200	200 300		400	100									
Job log pending (1015)	200	200 300		400	100									
Job message queue full action (1007)	200	200		400	100	100	100 200	Y	Y	Y	Y		Y	Y
Job message queue maximum size (1008)	200	200		400	100	100		Y		Y	Y		Y	Y
Job queue name (1004)	200	200		300	100	100	100 200		Y	Y	Y		Y	Y
Job queue library name (1004)	200	200		300	100	100	100 200		Y	Y	Y		Y	Y
Job queue priority (1005)	200	200		300	100	100	100 200		Y	Y	Y		Y	Y
Job switches (1006)	200	200		400	100	100	100 200	Y	Y	Y	Y		Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Job type (1010)	In 100 200	In 100 200 300		100 150 200 300 400 500 600 700 750 800 900 1000	100	100		Y					Y	Y
Job type enhanced (1016)	200	200 300		400	100									
Job subtype (1011)	100 200	100 200 300		100 150 200 300 400 500 600 700 750 800 900 1000	100	100		Y						

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Job user identity (1012)	200	200 300		600	100								Y	Y
Job user identify setting (1013)	200	200 300		600	100								Y	Y
Language ID (1201)	200	200		400	100	100	100 200 300	Y	Y	Y		Y	Y	Y
Number libraries in syslibl				700 750	200	200								
System library list (1980)				700 750	200	200		Y		Y			Y	Y
Number libraries in usrlibl				700 750	200	200								
User library list (2110)				700 750	200	200	300	Y		Y	Y		Y	Y
Number product libraries				700 750	200	200								
Product libraries if they exist (1660)				700 750	200	200								
Library name				750	200									
Library text description				750	200									
Library ASP #				750	200									
Library ASP name				750	200									
Logging level (1202)	200	200		500	100	100	100 200	Y	Y	Y	Y		Y	Y
Logging severity (1204)	200	200		500	100	100	100 200	Y	Y	Y	Y		Y	Y
Logging text (1205)	200	200		500	100	100	100 200	Y	Y	Y	Y		Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Logging of CL programs (1203)	200	200		400	100	100	100 200	Y	Y	Y	Y		Y	Y
Maximum processing unit time (1302)	200	200		150	100								Y	Y
Maximum temporary storage in kilobytes (1303)	200	200		150										
Temporary storage used in kilobytes ((2004)	200	200		150										
Maximum temporary storage in megabytes (1305)	200	200		150	100								Y	Y
Temporary storage used in megabytes (2009)	200	200		150	100								Y	Y
Memory pool name (1306)	200	200 300		200	100									Y
Message reply (1307)	200	200 300		200	100									
Mode name (1301)	200	200		400										
Number of auxiliary I/O requests (small) (1401)	200	200		200										
Number of auxiliary I/O requests (large) (1406)	200	200		200										
Number of interactive transactions (1402)	200	200		200										
Lock wait time - time during the elapsed time				1000										
Number of database lock waits (1403)	200	200		200										

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Time spent on database lock waits (2005)	200	200		200										
Number internal machine lock waits (1404)	200	200		200										
Time spent on internal machine lock waits (2006)	200	200		200										
Number of nondatabase lock waits (1405)	200	200		200										
Time spent on nondatabase lock waits (2007)	200	200		200										
Output queue name (1501)	200	200		300	100	100	100 200 300	Y	Y	Y	Y	Y	Y	Y
Output queue library name (1501)	200	200		300	100	100	100 200	Y	Y	Y	Y	Y	Y	Y
Output queue priority (1502)	200	200		300	100	100	100 200 300		Y	Y	Y		Y	Y
Page faults				200										
Page fault count during the elapsed time (job) (1609)		300		1000										Y
Page fault count during the elapsed time (thread) (1610)			100		300									Y
Print key format (1601)	200	200		400	100	100	100 200	Y	Y				Y	Y
Print text (1602)	200	200		400	100	100	100 200 300	Y	Y	Y	Y		Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOBI	Retrieve Thread Attributes QWTRVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Printer device name (1603)	200	200		300	100	100	100 200 300	Y	Y	Y	Y	Y	Y	Y
Process ID number (1608)	200	200		800										
Processing unit time used (small) - job (0304)	200	200		150 200										
Processing unit time used - total for the job (large) (0312)	200	200 300		150 200	100								Y	Y
Processing Unit time used - total for the thread (large) (0319)			100		100								Y	Y
Processing unit used - percent during the elapsed time (job) (0314)		300		1000									Y	Y
Processing unit used - percent during the elapsed time (thread) (0321)			100		300									Y
Processing unit used - time during the elapsed time (job) (0315)		300		1000										Y
Processing unit used - time during the elapsed time (thread) (0322)			100		300									Y
Processing unit time for database - total for the job (0313)	200	200 300		200	100									Y
Processing unit time for database - total for the thread (0320)			100		100									Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Processing unit used for database - percent used during the elapsed time (job) (0316)		300		1000										Y
Processing unit used for database - percent used during the elapsed time (thread) (0323)			100		300									Y
Processing unit used for database - time during the elapsed time (job) (0317)		300		1000										Y
Processing unit used for database - time during the elapsed time (thread) (0324)			100		300									Y
Product return code (1605)	200	200		600										
Program return code (1606)	200	200		600				Y					Y	
Purge (1604)	200	200		100 150		100	100 200	Y	Y				Y	
Thread resources affinity					Y			Y						
Resources affinity group					Y			Y						
Response time total (1801)	200	200		200										
Routing data (1803)	200	200		400						Y	Y			
Run priority - job (1802)	200	200 300		100 150 200	100	100	100 200	Y	Y				Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Run priority - thread (1804)			100		100		100 200 400						Y	
Server type (1911)	200	200 300		400	100		100 200							Y
Current number of pending signals				800										
Default signal action				800										
Max number of signals retained				800										
Number signal monitors				800										
Offset to signal monitor data				800										
Pending signal set	200	200		800										
Signal action				800										
Signal blocking mask (1909)	200	200		800										
Signal monitor data				800										
Signal number				800										
Signal status (1910)	200	200		800										
Signed on Job	200	200		400										
Sort sequence (1901)	200	200		400	100	100	100 200 300	Y	Y	Y		Y	Y	Y
Sort sequence library (1901)	200	200		400	100	100	100 200	Y	Y	Y		Y	Y	Y
Special environment (1908)	200	200		600	100							Y	Y	
Spooled file action (1982)	200	200 300		400	100	100	100 200	Y	Y	Y	Y		Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Server mode for SQL				900			100 200							
Number of SQL open cursors				900										
Object library for SQL cursor				900										
Object name for SQL cursor				900										
Object type for SQL cursor				900										
Offset to SQL open cursor data				900										
Size of SQL open cursor data				900										
SQL cursor name				900										
SQL open cursor data				900										
SQL statement name				900										
CCSID of current SQL				900										
Status of current SQL statement				900										
Offset to current SQL statement				900										
Length of current SQL statement				900										
Current SQL statement				900										Y
Relational database Name				900										

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Status	In 100 200	100 200		100 150 200 300 400 500 600 700 750 800 900 1000	100								Y	Y
Status message handling	200	200		400	100	100	100 200 300	Y	Y			Y	Y	
Status of job on job queue	200	200		300	100									
Submitter's job name (1904)	200	200		300 400	100	100				Y			Y	Y
Submitter's job user name (1904)	200	200		300 400	100	100				Y			Y	Y
Submitter's job number (1904)	200	200		300 400	100	100				Y			Y	Y
Submitters message queue name (1905)	200	200		300 400		100		Y		Y		Y		
Submitters message queue library (1905)	200	200		300 400		100		Y		Y		Y		

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Subsystem description (1906)	200	200 300		200 600	100								Y	Y
Subsystem description library (1906)	200	200 300		600	100									Y
System pool identifier (1907)	200	200		150 200		100							Y	
Initial thread						100								
Maximum threads (1304)	200	200		150	100	100							Y	Y
Thread count (2008)	200	200 300		150 200	100	100							Y	Y
Thread handle			100		In 100 200 300									
Thread hold count (2012)					100									
Thread identifier			100		In 100 200 300								Y	Y
Thread status (2010)			100		100								Y	Y
Thread type			100		100								Y	Y
Time separator (2001)	200	200		400	100	100	100 200	Y	Y				Y	Y
Time slice (2002)	200	200		100 150	100	100	100 200	Y	Y				Y	Y
Time-slice end pool (2003)	200	200		150		100	100 200	Y	Y		Y		Y	

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Time zone current abbreviated name (2020)	200	200		600	100	100		Y					Y	Y
Time zone current full name (2021)	200	200		600	100	100		Y					Y	Y
Time zone current message identifier (2022)	200	200		600	100	100								
Time zone current offset (2023)	200	200		600	100	100		Y					Y	Y
Time zone description name (2024)	200	200		400 600	100	100		Y					Y	Y
Time zone message file name - qualified (2025)	200	200		600	100	100								
Time zone Daylight Saving Time indicator (2026)	200	200		600	100	100								
Unit of work ID (2101)	200	200		400										
User return code (2102)	200	200		600										
The following attributes cannot be retrieved with any of the APIs, but are included for completeness.														
Home directory							300					Y		
Locale							300					Y		
Request data										Y	Y			
Hold										Y	Y			
Syntax											Y			
Command to run										Y				
Copy environment variables										Y				
Allow display submitted job										Y				
Controlled end requested													Y	
System													Y	
Spooled files													Y	Y

	List Job QUSLJOB	Open List of Jobs QGYOLJOB	Open List of Threads QWCOLTHD	Retrieve Job Info QUSRJOB1	Retrieve Thread Attributes QWTRTVTA	Retrieve Current Attributes QWCRTVCA	Change Job API QWTCHGJB	Retrieve Job Attributes command	Change Job command	Submit Job command	Job Description (create or change) commands	User Profile (create or change) commands	Work Job / Work Active Job commands	Job Properties Graphical User Interface
Job log													Y	Y
Call stack													Y	Y
Object locks held													Y	Y
Open files													Y	Y
File overrides													Y	
Commitment control status													Y	
Communications status													Y	
Activation group													Y	
Job mutexes													Y	

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve the performance improvements stated here.



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