

The checks realized by Control for i

Date: 09/11/2023

1 System check commands

CTCHKBCH

- Check if a job (defined by its name) has run in a specified time period
- Check the number of batch jobs with the same name that have run in a time period
- Check if a job has started at a specified hour
- Check that a job has ended at a specified hour, with a specified end code

CTCHKCERT

- Check that a Every certificate in a certificate store have a valid date

CTCHKCFGST

- Check the status of a device or a list of devices
- Check the status of a controller or a list of controllers
- Check the status of a line or a list of lines

CTCHKCPU

- Check CPU used for the entire system
- Check CPU used by jobs in a list of subsystems
- Check CPU used by jobs in a list of job names

CTCHKDSK

- Check disk space used in system ASP
- Check disk space used in user ASP or iASP
- Check if system disk space used is not growing too fast
- Check if ASP or iASP disk space used is not growing too fast

CTCHKDTAA

- Compare Data area content with a text in parameter
- Check a specific function by using a Data Area

CTCHKDTAQ

- Check the number of entries in a Data Queue (DTAQ)

CTCHKIFSNF

- Check the number of files (full name or generic name) in an IFS directory, and optionally in sub-directories.
- Check if files in an IFS directory are older than a specified duration

CTCHKIFSTX

- Look for a text in an IFS file

CTCHKJOB

- Check that a job is Active (by name, with or without user profile)
- Check that a job is Inactive (by name, with or without user profile)

- Check that a job is active AND not in a specified status (MSGW, LCKW, ...)

CTCHKJOBDU

- Check that a job is not Active for a too long time (by name, with or without user profile)
- Check that no job in a subsystem is Active for a too long time

CTCHKJOBQ

- Check existence and status (*RLS, *HLD) of a JOBQ
- Check the number of jobs waiting in a JOBQ

CTCHKLCKW

- Check existence of jobs in LCKW status
- Check existence of jobs in LCKW status running in a specified list of subsystems
- Check existence of jobs in LCKW status running in any subsystem except a specified list of subsystem
 - o Possible to omit a list of specified job names.

CTCHKMSGW

- Check existence of jobs in MSGW status (jobs in error and jobs reading MSGQ)
- Check existence of jobs in MSGW status (Only jobs in error)
- Check existence of jobs in MSGW status running in a specified list of subsystems
- Check existence of jobs in MSGW status running in any subsystem except a specified list of subsystem
 - o Possible to omit a list of specified job names.

CTCHKJOBS

- Check existence of jobs in a specific status
- Check existence of jobs in a specific status running in a specified list of subsystems
- Check existence of jobs in a specific status running in any subsystem except a specified list of subsystem
 - o Possible to omit a list of specified job names.

CTCHKLOG

- Check if there are errors in Control for i product

CTCHKMSGQ

- Check a specific MSGID or MSGID list in QSYSOPR
- Check a specific MSGID or MSGID list in a Message Queue
- Check a specific MSGID or MSGID list in the system log (QHST)
- Check a specific MSGID or MSGID list in BRMS
- Check a specific MSGID or MSGID list in an active job joblog
- All those checks may include:
 - o Generic MSGID
 - o Special values for MSGID like *ANY, *INQ, *NONE, *REPLY
 - o Specify Severity
 - o Specify Job name
 - o Specify User name
 - o Specify a text to look for in the message
- Run a specific action when a MSGID occurs
 - o Send an answer
 - o Call a command
 - o Call a program

CTCHKOUTQ

- Check that there is a minimum number of spools in an OUTQ
- Check that there is a maximum number of spools in an OUTQ
 - o Possible to select or omit spools according to their status (RDY, SAV, HLD, ...)

CTCHKPRB

- Check number of Hardware problems detected (WRKPRB)
- Check number of problems for internal disks (WRKPRB)

CTCHKSBS

- Check that a subsystem is Active
- Check that a subsystem is Inactive
- Check that a subsystem is active AND has a minimum number of jobs active
- Check that a subsystem is active AND that specific jobs (by job name) are currently active

CTCHKSYSST

- Check total number of jobs in the system
- Check % of permanent addresses used
- Check % of temporary addresses used
- Check temporary storage used
- Check maximum of temporary storage used

CTCHKUSR

- Check that a specified user profile is *ENABLED
- Check in a list of user profiles that there are less than a specified number of them that are *DISABLED

CTCHKTIM

- Compare the partition time with the monitoring server time

CTCHKUPTIM

- Check that the partition has been active for a minimum of time
- Check that the partition has been stopped/restarted at least x days ago

Backups

CTCHKSAV

- Check that SAVLIB command completed successfully in a specified time period
- Check that SAVLIB command completed successfully in a specified time period and job name
- Check that SAVDLO command completed successfully in a specified time period
- Check that SAVDLO command completed successfully in a specified time period and job name
- Check that SAV command completed successfully in a specified time period
- Check that SAV command completed successfully in a specified time period and job name
- Check that SAVSECDTA command completed successfully in a specified time period
- Check that SAVSECDTA command completed successfully in a specified time period and job name
- Check that SAVCFG command completed successfully in a specified time period
- Check that SAVCFG command completed successfully in a specified time period and job name

CTCHKBRM

- Check that 1 to x BRMS control group(s) completed successfully in a specified time period
- Check that 1 to x BRMS control group(s) completed successfully in a specified time period and job name

CTCHKBRMDP

- Check that a DUPTAPBRM has been done successfully in a specified time period
- Check that a DUPTAPBRM has been done successfully in a specified time period by a specific job

CTCHKBRMEX

- Check the number of expired medias of a media class
- Check the number of expired medias of a media class in a location

CTCHKBRMFC

- Check if FlashCopy status of BRMS is *STRPRC
- Check if FlashCopy status of BRMS is *ENDPRC

CTCHKBRMST

- Check number of pending DUPMEDBRM

Network

CTCHKPING

- Check if another system answers to a PING (done from the IBM i partition itself)

CTCHKLCLIP

- Check if a local IP address is active or inactive

CTCHKWEBSV

- Check that a web services server is active
- Check that one or several web service(s) are active or stopped

Objects and libraries

CTCHKOBJ

- Check that an object exists
- Check the size of an object

CTCHKJRN

- Check the size of the last journal receiver attached to a journal
- Check the number of entries in the last journal receiver attached to a journal

CTCHKLIBEV

- Check evolution of library size
- Check evolution of number of objects in a library

CTCHKLIBSZ

- Check library size
- Check number of objects in a library

2 Check Hight availability

2.1 Mimix

CTCHKMMXAG

- MIMIX Application Group, Check if Manager is active
- MIMIX Application Group, Check if Data replication is active
- MIMIX Application Group, Check procedures status

CTCHKMMXAU

- Check MIMIX Audits status

CTCHKMMXDG

- MIMIX Data Group, Check if data group is Enabled
- MIMIX Data Group, Check Communication status
- MIMIX Data Group, Check Data area process
- MIMIX Data Group, Check DB send process
- MIMIX Data Group, Check Remote journal link
- MIMIX Data Group, Check DB reader process
- MIMIX Data Group, Check number of DB apply process
- MIMIX Data Group, Check objects send process
- MIMIX Data Group, Check number of objects retrieve process
- MIMIX Data Group, Check number of objects apply process
- MIMIX Data Group, Check number of containers send process

CTCHKMMXDS

- MIMIX Data Group status, Check number of objects in error
- MIMIX Data Group status, Check non active objects
- MIMIX Data Group status, Check Non Journalized Objects on Source
- MIMIX Data Group status, Check Non Journalized Objects on Target
- MIMIX Data Group status, Check Files in error
- MIMIX Data Group status, Check non active files
- MIMIX Data Group status, Check IFS files in error
- MIMIX Data Group status, Check non active IFS files
- MIMIX Data Group status, Check IFS files not journaled on Source
- MIMIX Data Group status, Check IFS files not journaled on Target

2.2 Quick EDH

CTCHKEDH

- Check if a Quick EDD-HA environment is started
- Check if a Quick EDD-HA environment is stopped
- Check if a Quick EDD-HA environment has replication delay
- Check if a Quick EDD-HA environment has objects synchronization errors

2.3 iTera

CTCHKITAST

- Check the Role Swap Readiness
- Check that remote journals are active
- Check that apply jobs are active
- Check that network and subsystem are active
- Check that remote server is active
- Check disk space used by journal receivers

CTCHKITADL

- Check Apply latencies
- Check network latencies
- Check number of objects to resynch
- Check number of entries for jobs OBJMON1, 2 and 3
- Check Heal records processing
- Check number of waiting records for IFS
- Check number of waiting updates for spools
- Check number of waiting updates for commands
- Check that the monitoring data are updated frequently

3 MQ Series check commands

CTCHKMQST

- Check that a MQ manager is active
- Check that a MQ manage is stopped

CTCHKMQMSG

- Check the maximum number of messages in one or several queues

4 M3 check commands

Those commands are specific for M3 ERP (INFOR)

4.1 Checks based on M3 GRID

CTM3APPERR

- Check errors for all M3 applications
- Check errors for a list of specified M3 applications

CTM3APPSTS

- Check that all M3 applications have status OK, not OK, or not running
- Check that a list of specified M3 applications have status OK, not OK, or not running

CTM3APPWRN

- Check warnings for all M3 applications
- Check warnings for a list of specified M3 applications

CTM3G_NOD

- Check CPU used by M3 nodes
 - o For all nodes
 - o For a list of specified nodes
- Check memory used by M3 nodes
 - o For all nodes
 - o For a list of specified nodes

CTM3G_SVC

- Check that port is active or down for M3 services
 - o For all services
 - o For a list of specified services
- Check that thread is active or down for M3 services
 - o For all services
 - o For a list of specified services

CTM3HSTSTS

- Check memory used by M3 hosts
 - o For all hosts
 - o For a list of specified hosts

4.2 Checks based on Server View

CTM3G_NBAJ

- Checks that number of Autojobs is within limits

CTM3G_JOB

- Check CPU used by M3 jobs
 - o For all jobs
 - o For a list of specified jobs
- Check activity of M3 jobs
 - o For all jobs
 - o For a list of specified jobs

4.3 Checks based on internal M3 tables

CTM3CHKBCH

- Check if a M3 job (defined by its name) has run in a specified time period
- Check the number of M3 batch jobs with the same name that have run in a time period

CTM3JOBQ

- Check the number of jobs waiting in a M3 JOBQ

CTM3JOBSTS

- Check if M3 jobs are in error
- Check if M3 jobs are in status 15 or 25

5 Management commands

Commands used to configure or display results

CTCHGMSGST	Change messages control status
CTDSPALR	Display alerts on MSGQ
CTDSPLIB	Display Libraries size
CTWRKLIB	Work with Libraries definition
CTWRKMSG	Work with Messages definition
CTWRKKEY	Work with license keys

For information, the following commands are used for internal purpose in the product Control for i.

CTADDKEY	Add licence key
CTADDLOG	Add message in Product Log
CTAGENT	Start Agent listener
CTCLEAR	Clear Historic Data
CTDSPINF	Display Product and system information
CTDSPLOG	Display Product Log
CTDPSLOG	Display Product Log
CTENDSBS	Stop CONTROL4I sub-system
CTMENU	Display menu
CTPARAM	Work with parameters
CTRSTPRD	Restore product



CTSTRSBS Start CONTROL4I sub-system

Save/restore the Control for i configuration

CTSAVCFG Save Control for i definitions
CTRSTCFG Restore Control for i definitions

Remote upgrade

CTRMTUPD Remote update product and key