A Short Primer on CONR Terminology

for system administrators and non-developers

Version: 1.0.1

Note: Some of the terms are used as concepts, operational processes, and commands. I have tried to differentiate the usage when possible. But the distinctions are sometimes elusive as the terminology is frequently reused in multiple contexts.

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backend (console room) - For Trading Systems backend is a process that prepares an individual client or pricing number for the next business day. There are many components of backend. Some jobs are run depending upon how the firm is set up such as a buyside client or sellside, and other jobs run if certain packages have been added to the pricing number.

dbdwn - This brings the Bloomberg environment down. This is called by **restore** during a full turnaround.

endofday - This is part of a system turnaround that cleans up the system.

Full Turn (FT) - A full restart of the Bloomberg environment with the end of day processing specific to a host. Specifically; we **rtcpu** / **restore**(**dbdwn**) / **strtday**(**rstrt**) / **rescpu** contained within **restore** / **strtday** are things done at the end of a business day for maintenance, roll logs, init files, advance dates, copy databases & move in software.

GEST - Information specific to the load and state of User systems. **PWHO GEST** (General Notes - **4 <GO>**) tells the differing zones that the sub-options to **GEST** cover. For example, **GEST 313** will display all user systems for the America's region. The columns are the following:

MACH	The user machine hostname
TK	The ticker node ID for that user machine
USR	The LUWs currently on that system
***x*BIG**	Two columns of data for each type of BIGs on that system. The first column is the current number of waits, the second is the average waits since the environment was brought up. The BIG types are: IBIG (Mainline BIG), NBIG (News BIG), TSBIG (Trading Systems BIG), & PBIG (Portfolio BIG).

mark busy - This is a method to limit new users/**LOGI**ns to a (User) system. To mark a (user) system busy means to limit **!PCUL** (a metric visible in **CPUA**). This will have an effect of limiting "workstation 0" **LOGI**ns, but will continue new LUWs (visible as **LDNU** in **CPUA**) for items such as launchpad and **FIFW**. The net effect is that users can continue to spawn new LUWs on the system, but new users will be directed to other user machines at login.

msgmon - This is the process that monitors **act.log** for specific strings that are indicative of key status changes on watched applications. **ALMN**s can be generated off of these patterns and uses the msgmon engine to get the data.

procmgr - This is the parent process of the majority of the Bloomberg environment. This process launches, restarts, and kills processes in the Bloomberg. The TEAM page provides more detail here: http://cms.prod.bloomberg.com/team/display/sysi/procmgr

Quick Turn (QT) - This is a minimal or no restart of the Bloomberg environment (**rtcpu**/**rescpu** is an option based on the machine owner's discretion). The script **turnaround** runs and may require a source machine to sync certain files & databases from. Turnaround will also roll logs, init files, advance dates and copy databases. The bbenv for the most part remains up but depending on the machine machine may come offline during turnaround based upon what the owners require. Most "BIG" machines that run quick turnaround do move software in during this time and are taken offline for the duration of quick turnaround.

rescpu - This is the command to allow application requests to a specific host. Rescpu is the method used to tell machines that a machine is online and that all database and function requests should be directed back to this machine. **rescpu** will take any number of parameters, each of which must be the node number of the machine(s). For each machine listed, **rescpu** will issue the command **rescript** with the node number. An alternate naming convention for this action is "put online". A rescpu'd or online host is considered able to service application data and requests.

restore - This script is used to bring down a machine during a full turnaround - specifically by calling **dbdwn**.

rstrt - This script is used to bring up the Bloomberg environment. This is called by **strtday** during a full turnaround.

rtcpu - This is the command to restrict application requests to a specific host. Rtcpu is the method used to tell the machines that a machine is offline and that all database and function requests should be directed to alternate destinations. **rtcpu** will take any number of parameters, each of which must be the node number of the machine(s). For each machine listed, **rtcpu** will issue the command **rtscript** with the node number.

satoff - This command removes the current users off a running user system. The users will need to re-login and be directed to another user system. **satoff** is specific to user systems. You would not simply route people away from a user system via **rtcpu**, but would instead use **satoff** in conjunction with **rtcpu** to mark such a system offline.

strtday - This script is used to bring up a machine during a full turnaround - specifically by calling **rstrt**.

syschk - A (generic reference to a) process that watches to insure that certain key programs are up and running. The list for any system can be found in **/bb/data/syschk.cmd**. Individual programs can be temporarily excluded from syschk. There are many variations of syschk by application as well as standard syschk: Examples: **fitchk**, **cdb2chk**, **dbvarchk**, **aechk**, **btchk**, & **tssyschk**.

Turn (around) - The is a generic form of the more specific turn types done on various types of systems. During turn, software can be installed (bigs updated), databases copied, and/or logs rolled. The Bloomberg environment *may* be restarted - depending upon the turn type.

turnaround - The command for a quick turn - this does not call **dbdwn**.

VSAT8 - This listing denotes systems that are rtcpu'd. A **rescpu** removes a node ID from this list. **VSAT8** (without arguments) will display a list of all rtcpu'd nodes. **VSAT8 <node_id>** will display a two-line with information on just that node. **VSAT8 <bbcpu group>** is another common tail used to check if machines in a specific group are offline or online.

zero-byte markers - These are files that are dropped by some of the processes or tasks listed here. They have extensions such as **.done** (finished), **.lock** (running), **.run** (the job started - but does not have a clear end), & **.trap** (DB or task is completely started/up) as some. You may see references to these files in tickets to denote progress during a system state change.

Resources:

- https://cms.prod.bloomberg.com/team/display/csrm/FAQ
- https://cms.prod.bloomberg.com/team/display/csrm/CR+Intro+to+the+Bigs
- **BP CONSOLE ROOM OPERATIONS<GO>**