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Q-Xcelerator Resource Manager

User Guide

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Q-Xcelerator Resource Manager version A.10

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Q-XCELERATOR RESOURCE MANAGER

Welcome to Q-Xcelerator

Welcome to the Q-Xcelerator® Resource Manager software package by Lund Performance Solutions®. Q-Xcelerator is a proactive, cost-effective performance tool for managing HP e3000 dispatcher queues. MPE provides commands (TUNE and ALTPROC, for example) to designate and adjust queue settings. Q-Xcelerator takes queue management one step further.

Product Overview

Q-Xcelerator enables the system manager to create subqueues within the standard MPE queues. From there, users can be assigned to particular subqueues by logon, LDEV, program, or other criterion. Q-Xcelerator also has a "Bump Queue" feature that will bump a process to another subqueue once it exceeds a user-defined CPU time threshold.

Q-Xcelerator can maximize CPU utilization and insure that user service levels and critical system processing are maintained. It redistributes the process priorities according to the system manager's specifications, and improves the performance of the HP e3000 system.

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- Product name and version number.
- Type of computer hardware you are using.
- Software version number of your operating system(s).
- Exact wording of any messages that appear on your screen.
- What you were doing when the problem occurred.
- How you tried to solve the problem.

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Product Documentation

User's Guide

This user's guide accompanies the Q-Xcelerator software as a guide for the new user and as a quick reference for experienced users. This guide assumes that you have a working knowledge of the MPE operating environment.

Online Help System

In the online Help system, you will find explanations of the many features of Q-Xcelerator, as well as tips to guide you through the program's basic functionality.

2

MPE Subqueue Concepts

Overview

The MPE dispatcher is the part of the operating system that is responsible for the orderly allocation of CPU time among processes. The priority of a process dictates when it gets use of the CPU. Processes using very little CPU resources are rewarded with higher processing priority. CPU-intensive processes are penalized—moved to a lower priority by the dispatcher. Since a CPU can process only one request at a time, processes that are assigned lower dispatcher priorities have to wait for higher priority processes.

Standard MPE Subqueues

The MPE operating system has five standard subqueues to which a process can be assigned: AS, BS, CS, DS, and ES (the "S" stands for "subqueue"). A process can be assigned to a subqueue by logon or function. Priority within a subqueue is defined by a numerical value ranging from 1 to 255; 1 is the highest priority, and 255 is the lowest.

- The **AS** subqueue has the highest priority (1-98). It is reserved for highest priority operating system processes.
- The **BS** subqueue is the next highest priority (100-150). It is typically reserved for other system processes and extremely high priority user processes.
- The **CS** subqueue (priority 152--200) is the default subqueue for interactive sessions.
- The **DS** subqueue (priority 202-238) is reserved for high priority batch jobs.
- The **ES** subqueue (priority 240-253) is typically used for any other processes that are to run at the lowest priority behind all other processes.

The AS or BS subqueues are called *linear* subqueues. The priority of a process in a linear subqueue does not change during the life of the process. Once a process within the AS or BS subqueues is assigned a priority, the dispatcher does not change its priority. The priority remains static.

The CS, DS, and ES subqueues are *circular*. In circular subqueues, a process starts off at a particular priority and then degrades as it uses more and more CPU time. When it reaches the limit of the subqueue (the lowest priority defined for that subqueue) it will do one of two things:

- Remain there if the queue is configured to decay.
- Return to the base (the highest point) of the subqueue if the subqueue is configured to oscillate.

NOTE The TUNE command in MPE can be used to specify whether a queue will decay or oscillate.

Although it is possible to designate a process' priority, the MPE dispatcher does not provide the ability to prioritize by user, application, program, LDEV, day of the week, time of day, job-only, session-only, batch, or session. This is where Q-Xcelerator provides greater control than MPE by allowing controlling process priority specific to all of the above mentioned criteria.

3

QUICK START TUTORIAL

Overview

This chapter shows first-time users how to perform basic procedures in Q-Xcelerator:

- Run Q-Xcelerator
- Define subqueues
- Associate sessions and programs with the subqueues
- Run the Q-Xcelerator monitor job (QXMONJOB)

Running Q-Xcelerator

To run the Q-Xcelerator program, enter the following command from the MPE prompt:

:RUN QXL.QXL.LPS

The Main Menu will display.

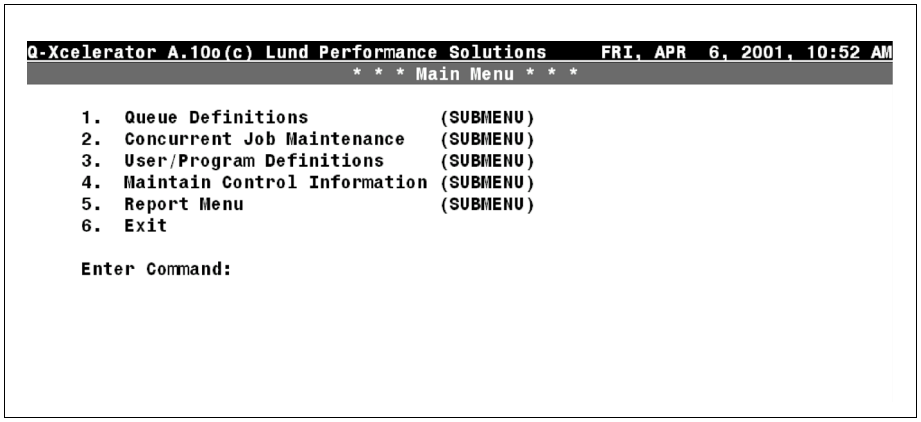


Figure 3.1 *Q-Xcelerator Main Menu screen*

Adding a Subqueue

To add a new subqueue in Q-Xcelerator:

1 From the Main Menu , select Queue Definitions (SUBMENU).

2 Select Add. The Add Queue Definitions screen displays.

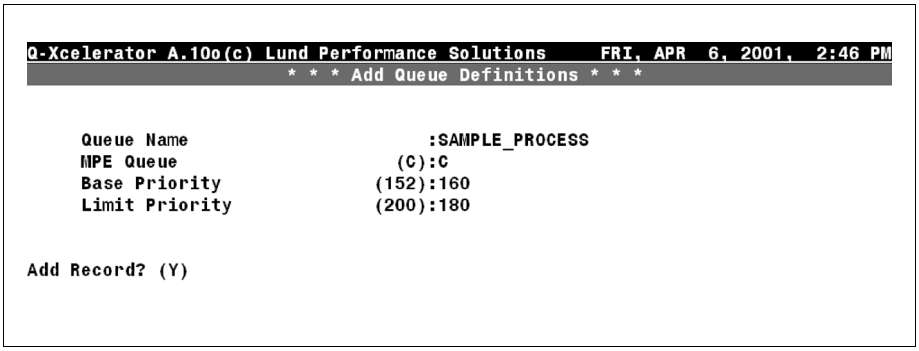


Figure 3.2 *Q-Xcelerator Add Queue Definitions screen (example)*

3 Specify the following parameters for the new subqueue:

a Queue Name

A user-defined, 16-character, alphanumeric name (required).

b **MPE Queue**

The standard MPE subqueue in which the new, user-defined subqueue will reside (required). Valid inputs are:

- L for BS (linear) subqueue (100-150)
- C for CS subqueue (152-200)
- D for DS subqueue (202-238)
- E for ES subqueue (240-253)

For information about MPE subqueues, see "Standard MPE Subqueues" on page 5.

c Base Priority

The three-digit subqueue priority at which jobs in the subqueue will begin. Q-Xcelerator will verify that this value falls within the current MPE Queue priority range specified in the previous step. If the Base Priority value exceeds the user-specified range, Q-Xcelerator will issue an error message and suggest a proper value.

d Limit Priority

The lowest priority (largest three-digit priority number) to which jobs in the queue will decay.

4 If the new subqueue definition appears correct, reply to the Add Record (Y) prompt by entering Y (Yes). If it does not appear as desired, reply N (No).

Changing a Subqueue Definition

To change a previously defined subqueue:

1 From the Main Menu, select Queue Definitions (SUBMENU).

2 Select Change. The Change Queue Definitions screen displays.

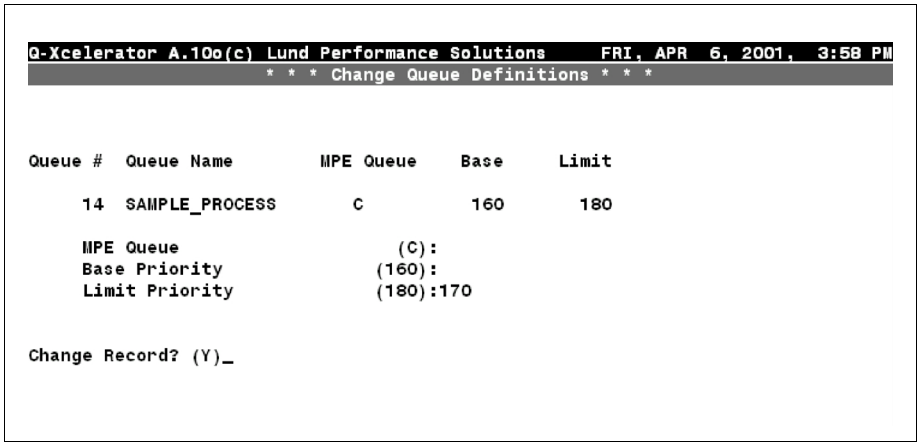


Figure 3.3 *Q-Xcelerator Change Queue Definitions screen (example)*

3 Type the exact name of the subqueue. Information about that subqueue is displayed.

4 Change one or more of the subqueue parameters.

5 To save changes to the record, enter Y (Yes). If you decide to keep the original definition, reply N (No).

Deleting a Subqueue Definition

To delete a previously defined subqueue:

1 From the Main Menu , select Queue Definitions (SUBMENU).

2 Select Delete. The Delete Queue Definitions screen displays.

```
Q-Xcelerator A.10o(c) Lund Performance Solutions     FRI, APR  6, 2001,  4:16 PM
                        * * * Delete Queue Definitions * * *


Queue #   Queue Name         MPE Queue     Base      Limit

     15   OBSOLETE_PROCESS       E           245        255

Delete Record? (Y)_
```

Figure 3.4 *Q-Xcelerator Delete Queue Definitions screen (example)*

3 Type the exact name of the subqueue. Information about that subqueue is displayed.

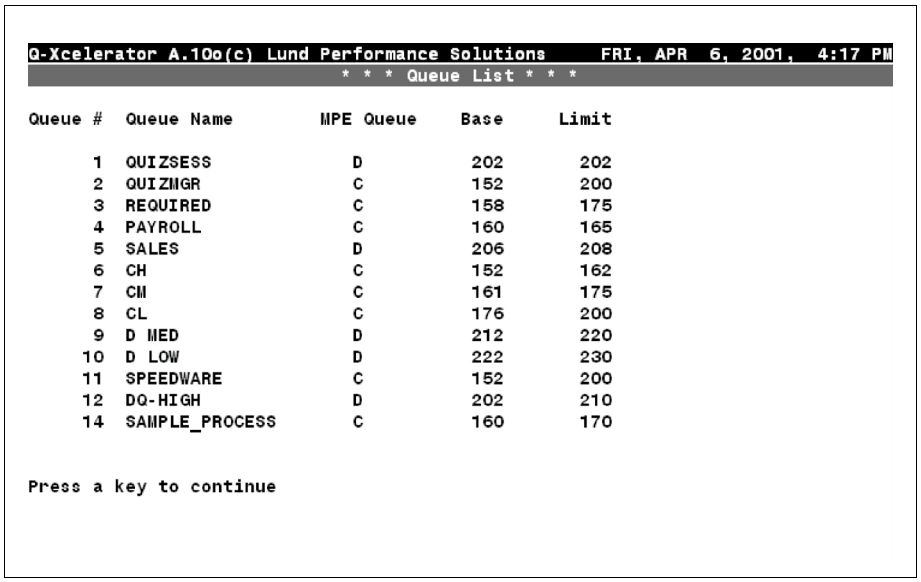
4 Enter Y (Yes) to delete the record from memory. If you decide to keep the definition, reply N (No).

Showing a Subqueue Definition

To show a list of all subqueue definitions:

1 From the Main Menu , select Queue Definitions (SUBMENU).

2 Select Show. The Queue List screen displays (Figure 3.5).



```
Q-Xcelerator A.10o(c) Lund Performance Solutions     FRI, APR  6, 2001,  4:17 PM
                              * * * Queue List * * *

Queue #   Queue Name         MPE Queue     Base      Limit

      1   QUIZSESS               D          202        202
      2   QUIZMGR                C          152        200
      3   REQUIRED               C          158        175
      4   PAYROLL                C          160        165
      5   SALES                  D          206        208
      6   CH                     C          152        162
      7   CM                     C          161        175
      8   CL                     C          176        200
      9   D MED                  D          212        220
     10   D LOW                  D          222        230
     11   SPEEDWARE              C          152        200
     12   DQ-HIGH                D          202        210
     14   SAMPLE_PROCESS         C          160        170


Press a key to continue
```

Figure 3.5 *Q-Xcelerator Queue List screen*

3 To return to the Queue Definitions screen, press any key.

4 To return to the Main Menu, select Exit Submenu. Save changes, if desired.

NOTE Although a subqueue definition can be added, changed, or deleted at any time, the modification will not become effective until the subqueue definitions are actually reloaded by manually selecting the Reload option in the Maintain Control Information submenu of Q-Xcelerator ("Reload Definitions" on page 15). Note also that the QXMON program (from QXMONJOB) must be running in order to use the Reload option.

Associating Users and Programs to Subqueues

Once a user-defined subqueue is established, the next step is to associate the desired sessions and programs with that subqueue.

To assign sessions and programs to a subqueue:

1 From the Main Menu , select User/Program Definitions (SUBMENU).

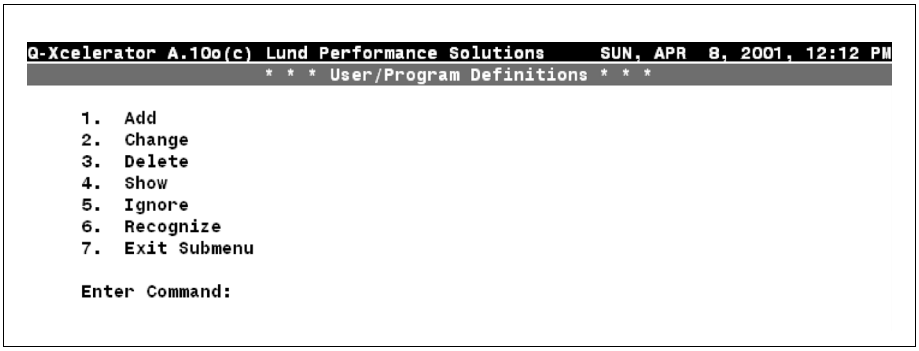


Figure 3.6 *Q-Xcelerator User/Program Definitions Submenu screen*

The User/Program Definitions screen will display the following options:

- **Add** creates a user/program definition for a previously defined subqueue.
- **Change** modifies an existing definition. The assignment number of all user/program definitions is required. Use the Show option to get a list of those assignment numbers.
- **Delete** removes an existing definition. The assignment number is required.
- **Show** displays all of the assignment number definitions.
- **Ignore** causes the Q-Xcelerator monitor job to ignore this user/program definition without actually deleting the record from memory.
- **Recognize** is the converse of the Ignore option.
- **Exit** leaves the User/Program Definitions submenu.

2 Select Add. Reply to the series of prompts:

a Queue Name

The 16-character, alphanumeric name defined in the Queue Definitions submenu (see "Queue Name" on page 8).

b Adjust Jobs, Sessions, or Both

Limits the definition to jobs, sessions, or both. Valid inputs are J (jobs), S (sessions), or B (both). The default value is S.

c Logon ID

A field used to specify the logon ID. The format is: Session, User.Account, Group. In this format, User.Account is required. The default setting is @.@ (i.e., all user.accounts).

d Programs

A field that specifies a program, group, and account (where the program name resided when the process was created). The format is: Program name.Group.Account. The default setting is @.@.@ (i.e., all programs on all groups under all accounts.

e LDEV

A numeric field that stipulates that the process must be associated with this logical device number. A value of zero (the default) means that all logical devices qualify.

f Reset percent

A numeric field with valid values from 1 through 100. If the Reset percentage is set to 0 or 100, then when a process is adjusted by the monitoring job, it will be put to the base value specified its corresponding subqueue definition. Any other valid value for the Reset percentage will cause the monitoring job to adjust the process priority by this percentage relative to its base and limit values specified in its corresponding subqueue definition.

NOTE Entering a value of 0 (zero) is the same as selecting "decay" via the MPE TUNE command. A value of 100 is the same as "oscillate." Any other valid value is equivalent to "oscillate" at a percentage.

g Valid Days

A character string that specifies to which particular days of the week this User/Program definition will apply.

- ALL (all days of the week)
- MO (Monday)
- TU (Tuesday)
- WE (Wednesday)
- TH (Thursday)
- FR (Friday)
- SA (Saturday)
- SU (Sunday)

Values other than ALL must be separated by a space. Any combination of days will cause a process to be adjusted by the monitoring job only on the specified days. The default value of ALL will cause a process to always be adjusted by the monitoring job, seven days a week.

h From

A numeric field for time with valid values from 0 through 2359. It stipulates that the current time of day must be equal to or greater than this value in order for a process to be adjusted by the monitoring job. A value of 0 is equivalent to 12:00 AM, and will

therefore cause a process to always qualify for the monitoring job if the To time setting is also zero.

i To

A numeric field for time with valid values from 0 through 2359. It stipulates that the current time of day must be equal to or less than this value in order for a process to be adjusted by the monitoring job. A value of 0 is equivalent to 00:00 AM, and will therefore cause a process to always qualify for the monitoring job if the From time setting is also zero.

j **Bump Queue**

Specifies by queue name which queue definition to bump a process to, once the total CPU milliseconds used for that process exceeds the user-defined Bump threshold.

k Bump Threshold

Specifies the total CPU time in milliseconds that must pass before a process is bumped to the Bump Queue. (This Bump Threshold prompt only displays when a Bump Queue value is entered in the previous prompt.)

3 To confirm the User/Program Definition, reply Y (Yes). To clear the settings, reply N (No).

Running the Q-Xcelerator Monitor Job

To run the Q-Xcelerator monitor job, QXMONJOB:

1 From the Main Menu, select Maintain Control Information (SUBMENU).

2 Select Launch Monitor Job.

For information about the control options, see "Global Controls" on page 15.

4

GLOBAL CONTROLS

The various global options that control Q-Xcelerator functionality comprise the Maintain Control Information submenu.

To access the global options, select Maintain Control Information (SUBMENU) from the Main Menu screen.

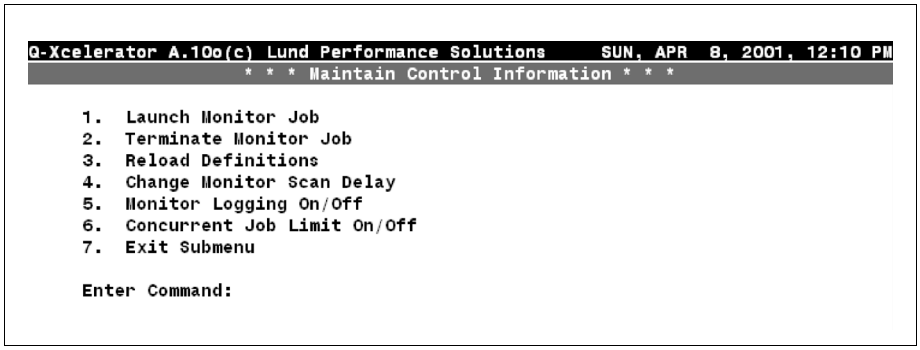


Figure 4.1 *Q-Xcelerator Maintain Control Information Submenu screen*

The Maintain Control Information Submenu screen will display the following global options:

- **Launch Monitor Job**

  Streams the batch program, QXMONJOB, which is responsible for actually enforcing all the Q-Xcelerator queue definitions that have been set up.

- **Terminate Monitor Job**

  Terminates the QXMONJOB, which also stops the QXMON program.

- **Reload Definitions**

  This option is used while QXMON is running (via the QXMONJOB program), to update QXMON with the most current Q-Xcelerator parameter settings.

- **Change Monitor Scan Delay**

  Displays the current delay time and prompts for a new delay time. The new value will not take effect until the Reload Definitions option is performed. The shorter the scan delay time, the more often Q-Xcelerator will check and adjust processes, and the more CPU time it will use.

- **Monitor Logging On/Off**

  Toggles on and off the generation of change records by QXMON whenever it modifies a process.

- **Concurrent Job Limit On/Off**

  Toggles on and off, on a global level, any concurrent job limits that have been set up. Any changes must be reloaded.

- **Exit Submenu**

  Exits the submenu and returns to the Main Menu screen.

5

CONCURRENT JOB LIMITING

A feature of Q-Xcelerator is the ability to limit the number of occurrences of a particular job (or group of jobs) that can run concurrently on the system.

Adding a Concurrent Job Group

To create a concurrent job group:

1 From the Main Menu, select Concurrent Job Maintenance (SUBMENU).

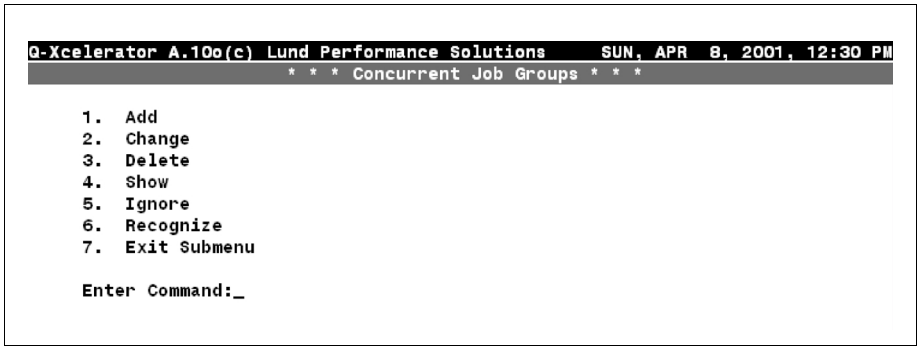


Figure 5.1 *Q-Xcelerator Concurrent Job Maintenance Submenu screen*

The Concurrent Job Maintenance Submenu screen will display the following options:

- **Add** creates a concurrent job group.
- **Change** modifies an existing concurrent job group.
- **Delete** removes an existing concurrent job group definition.
- **Show** lists all of the concurrent job groups configured.
- **Ignore** causes the Q-Xcelerator monitor job to ignore the concurrent job group.
- **Recognize** is the converse of the Ignore option.
- **Exit** leaves the Concurrent Job Maintenance Submenu.

2 Select Add. The Add Concurrent Job Definition screen displays.

3 Specify the following parameters for the new job group:

a Concurrent Job Definition

A user-defined, 16-character, free-form text name for the concurrent job group (required). The default is @.@ (all user accounts).

b **Logon ID**

A field used to specify the logon ID. The format is Session, User.Account, Group. In this format, User.Account is required.

c Concurrent Job Limit

The number of jobs in this group allowed to run simultaneously. Valid entries are from 0 through 9999. The default value is 0.

4 Respond the prompt with Y (Yes) to save the new job group definition to memory. Any other key will abort the addition of this entry.

Changing a Concurrent Job Group Definition

To change a previously defined concurrent job group definition:

1 From the Main Menu, select Concurrent Job Maintenance (SUBMENU).

2 Select Change. The Change Concurrent Job Group Definitions screen displays.

3 Type in the exact name of the job group. Information about that job group is displayed.

```
Q-Xcelerator A.10o(c) Lund Performance Solutions     SUN, APR  8, 2001,  3:45 PM
                  * * * Change Concurrent Job Definitions * * *


Job Definition   Logon Id              Job Limit  From To    Day(s)      Ignore?

JOBM125          MQZ125JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N

 Logon Id (MQZ125JS,USERBTCH.MAC90  ):
 Logon Id (                         ):
    Use '^' to clear days already set.
    Valid days (Mo Tu We Th Fr      ):
                         From (06:30):
                           To (17:00):
     Concurrent Job Limit       (  2):


Change Record? (Y)_
```

Figure 5.2 *Q-Xcelerator Change Concurrent Job Group Definitions screen (example)*

4 Change one or more of the job group parameters. (Move to next parameter by pressing the Enter key.)

5 To save changes to the record, enter Y (Yes). If you decide to keep the original definition, reply N (No).

Deleting a Concurrent Job Group Definition

To delete a previously defined job group:

1 From the Main Menu, select Concurrent Job Maintenance (SUBMENU).

2 Select Delete. The Delete Concurrent Job Group Definitions screen displays.

3 Type in the exact name of the job group. Information about that job group displays.

4 Enter Y (Yes) to delete the record from memory. If you decide to keep the definition, reply N (No).

Showing a Concurrent Job Group Definition

To show a list of all subqueue definitions:

1 From the Main Menu, select Concurrent Job Maintenance (SUBMENU).

2 Select Show. The Concurrent Job Definition List screen displays.

```
Q-Xcelerator A.10o(c) Lund Performance Solutions     SUN, APR  8, 2001,  3:59 PM
                    * * * Concurrent Job Definition List * * *

Job Definition   Logon Id              Job Limit  From To    Day(s)      Ignore?

JOBF13           FQZ013JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBF25           FQZ025JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBF35           FQZ035JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBF6            FQZ006JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBF41           FQZ041JS,USERBTCH.MAC90    1   06:30 17:00 MoTuWeThFr      N
JOBF118          FQZ118JS,USERBTCH.MAC90    1   06:30 17:00 MoTuWeThFr      N
JOBF124          FQZ124JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBF115          FQZ115JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBM129          MQZ129JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N
JOBM125          MQZ125JS,USERBTCH.MAC90    2   06:30 17:00 MoTuWeThFr      N


Press a key to continue_
```

Figure 5.3 *Q-Xcelerator Concurrent Job Definition List screen (example)*

3 To return to the Concurrent Job Maintenance Submenu, press any key.

4 To return to the Main Menu, select Exit Submenu. Save changes, if desired.

NOTE Concurrent job limiting may be used even if no queue changes are desired.

6

REPORTS

Overview

Q-Xcelerator generates two types of reports:

- Q-Xcelerator Configuration Report
- Q-Xcelerator Log File Report

Both reports are generated by batch programs that are launched interactively from the Q-Xcelerator Report Menu screen.

Generating a Q-Xcelerator Configuration Report

To generate a Q-Xcelerator Configuration Report:

1 From the Main Menu, select Report Menu (SUBMENU).

2 Select Generate Configuration Report.

By default, the Q-Xcelerator Configuration report is saved to the $STDLIST as QXLCNFIG. To change the location of the output file, follow the procedure outlined in “Setting the Output File” on page 23.

An example Q-Xcelerator Configuration Report is shown in Figure 6.1 on page 22.

```
                        * * * Control Information * * *

     Monitor scan delay: 2      Logging is disabled

                             * * * Queue List * * *

Queue #   Queue Name         MPE Queue    Base     Limit

      1   QUIZSESS             D          202       202
      2   QUIZMGR              C          152       200
      3   REQUIRED             C          158       175
      4   PAYROLL              C          160       165
      5   SALES                D          206       208
      6   CH                   C          152       162
      7   CM                   C          161       175
      8   CL                   C          176       200
      9   D MED                D          212       220
     10   D LOW                D          222       230
     11   SPEEDWARE            C          152       200
     12   DQ-HIGH              D          202       210
     13   SAMPLE_PROCESS       C          160       170

  Q-Xcelerator Configuration Report   MON, APR  9, 2001,  3:51 PM   Page:    2
(24/41) Continue? _


                          * * * Queue Assignment List * * *

Asn#   Queue Name          LDEV   Reset% J S I  From To    Day(s)

   1   QUIZSESS               0       0   N Y N 00:00 23:59 MoTuWeThFrSaSu
       Logon: @.@                          Program: QUIZ.@.COGNOS
   2   QUIZMGR                0       0   Y Y N 00:00 23:59 MoTuWeThFrSaSu
       Logon: JEANNIE,SMANAGER.MAC90       Program: QUIZ.@.COGNOS
   3   REQUIRED               0      25   Y Y N 00:00 23:59 MoTuWeThFrSaSu
       Logon: @.@                          Program: @.@.@
   4   PAYROLL                0       0   Y N Y 00:40 23:59 MoTuWeThFrSaSu
       Logon: @.@                          Program: @.@.@
   5   SPEEDWRE               0     100   N Y Y 08:00 17:00 MoTuWeThFr
       Logon: MGR.PBC                      Program: SPW4GL.@.@
   6   DONALD                 0       0   N Y N 08:00 17:00 MoTuWeThFr
       Logon: MGR.LPS                      Program: @.@.@
   7   DQ-HIGH                0       0   N Y N 00:00 23:59 MoTuWeThFrSaSu
       Logon: @.@                          Program: @.@.@
```

Figure 6.1 *Q-Xcelerator Configuration Report File (example)*

Control Information

The first section of the Configuration Report, Control Information, shows the current value of the monitor scan delay.

Queue List

The second section of the Configuration Report, Queue List, lists one line of information for each queue defined:

- Queue Number
- Queue Name
- MPE Queue Base
- MPE Queue Limit

Queue Assignment List

The Queue Assignment List provides two lines of information for each pre-defined queue assignment. The first line shows:

- Assignment Number
- Queue Name
- Group ID
- Logical Device Number
- Level ("L")
- Reset Percentage
- Job Flag ("J")
- Sessions Y/N Flag ("S")
- Ignore Flag ("I")
- From/To Time
- Valid Days.

The second line shows the Logon ID and Programs for the assignment.

Setting the Lines per Page

To specify the number of lines on the Q-Xcelerator Configuration Report output file before a page break occurs:

1. From the Main Menu, select Report Menu (SUBMENU).
2. Select Set Lines per Page.
3. Enter a value. The default is 60 lines per page.

Setting the Output File

By default, the Q-Xcelerator Configuration report is saved to the $STDLIST as QXLCNFIG. To designate a different output file:

1. From the Main Menu, select Report Menu (SUBMENU).
2. Select Set Output File.

3 Type a name for the output file. The name should be eight characters or less, beginning with an alphabet character, not a number.

The new output file will be save to the logon group.

Streaming the Q-Xcelerator Log Reporter in Batch

The Q-Xcelerator Log Report is a record of changes that Q-Xcelerator makes to processes run during the reporting period. The report may be run as a batch job using the job stream provided with Q-Xcelerator. This job stream file will first need to be edited to set the various reporting options desired within the job stream, itself.

To stream the Q-Xcelerator Log File Reporter job:

1 From the Main Menu, select Report Menu (SUBMENU).

2 Select Generate Log Report.

3 At the prompt, "Stream QXL job (Y)?", reply Y (Yes).

The screen will show the Job numberand confirm that the job is launched.

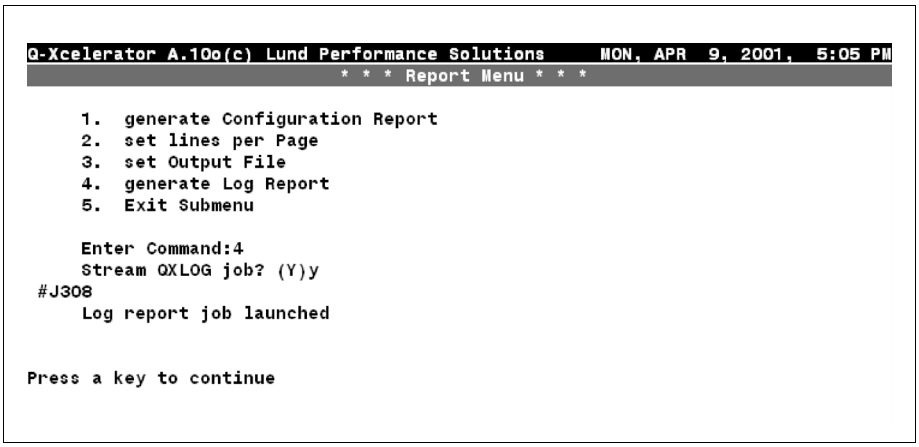


Figure 6.2 *Q-Xcelerator Log File Reporter job (example)*

Generating a Q-Xcelerator Log Report

To generate an online Q-Xcelerator Log Report:

1 From the Main Menu, select Report Menu (SUBMENU).

2 Select Generate Log Report.

3 At the prompt, "Stream QXL job (Y)?", reply N (No). In a brief moment, the initial screen of the Q-Xcelerator Log File Reporter program will display.

```
********************************************************************************

Generate detail report (N):y
Generate summary report (N):n

Enter beginning date (00/00/00): 03/01/01
Enter beginning time (00:00):

Enter ending date (03/01/01): 03/31/01
Enter ending time (23:59):

Enter up to six of the following items to use as sort items,
separated by commas and listed in major to minor order:
  1) Date                    9) Program group          17) Job number
  2) Time                   10) Program account        18) Logon LDEV
  3) Hour                   11) Program full name      19) Old MPE queue
  4) Minute                 12) Session/job name       20) New MPE queue
  5) Q-Xcelerator queue     13) User name              21) Old priority
  6) Bump queue             14) Logon account          22) New priority
  7) Bumped flag            15) Logon group            23) PIN
  8) Program name           16) Job type (S/J)         24) CPU Time (ms)

Sort order (1,2,5,11):

Enter up to ten of the following items to report in
addition to the sort items specified:
  1) Date                    9) Program group          17) Job number
  2) Time                   10) Program account        18) Logon LDEV
  3) Hour                   11) Program full name      19) Old MPE queue
  4) Minute                 12) Session/job name       20) New MPE queue
  5) Q-Xcelerator queue     13) User name              21) Old priority
  6) Bump queue             14) Logon account          22) New priority
  7) Bumped flag            15) Logon group            23) PIN
  8) Program name           16) Job type (S/J)         24) CPU Time (ms)

Data items (21,22):
```

Figure 6.3 *Q-Xcelerator Log File Reporter program configuration screen (example)*

4 Reply to a series of prompts to configure the report file:

- a Generate detail report (Y/N)
- b Generate summary report (Y/N)
- c Enter beginning date (00/00/00)
- d Enter beginning time (00:00)
- e Enter ending date (today's date)
- f Enter ending time (23:59)

g Enter up to six of the previous items to use as sort items, separated by commas and listed in major to minor order.

h Enter up to ten of the previous items to report in addition to the sort items specified. (This prompt is available only when a report summary is requested at the second prompt.)

The program will generate the report and send it to the printer or print spooler.

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