

Infor ERP System i A3

**System Manager Machine
Manager**

Product Guide

INFOR™

Frontispiece

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Chapter 1 - Auto Day Routines

Auto Day-start Jobs

Use this activity to create and maintain the tasks that are part of the daily system start up activities, that is, activities performed after the [IPL](#). For example, you could set up [Machine Manager](#) to start each of your application subsystems running automatically.

Using Day-end to Day-start Options

If you wish to use [Machine Manager](#) to power down and [IPL](#) your machine, use the command SBMPWRDWN. This submits a batch job to execute the command, RUNPWRDWN, which performs the power down (using the job description PWRDWNSYS). The job description directs the submitted job to job queue PWRDWNSYS. If the power down is to be the last job performed, then this job queue must be added as the last job queue entry in the batch subsystem.

To do this, enter the following command:

```
ADDJOBQE SBSD(QBATCH) JOBQ(AULAMP3/PWRDWNSYS)
SEQNBR(number)
```

where the number is higher than any of the other job queue entries.

Alternatively, if you do not wish to power down the machine, then you must run the day-start routine as the last day-end job. This can be performed by using the command RUNADSJOB.

Note: If you have created a system library as part of the installation routine then the job queue and job description PWRDWNSYS will be duplicated into the system library. For ease of use, add the system library PWRDWNSYS job queue as the job queue entry and change the system library PWRDWNSYS job description to point at this job queue. Details of how to do this are contained in the Software Installation product guide.

Day-start to Day-end

[Machine Manager](#) has been designed to provide a flexible approach to the automatic management of daytime (primarily interactive) processing, and night-time (predominately batch) processing. This is, in effect, what the auto day-start and auto day-end functions do. The interactive-to-batch switch is controlled by auto day-end. The batch-to-interactive function is controlled by auto day-start, which may be done as a part of system start-up following a power down.

The interactive-to-batch function is controlled by running the command SBMENDDAY as the last function in the day-start procedure. This submits a job to the Job Scheduler to execute the command RUNENDDAY.

Standard Day-Start Jobs

The following are supplied as Standard Day-Start Jobs.

Description	Module	Request Data
Start SBS QINTER	MM	STRSBS SBSD(QINTER)
Hold JOBQ PWRDWNSYS	MM	HLDJOBQ JOBQ(PWRDWNSYS)
Change SBS QBATCH to active jobs *NOMAX	MM	CALL PGM(CHGQBATCH)
	MM	PARM (*NOMAX)
Start SBS QBATCH	MM	STRSBS SBSD(QBATCH)
Start SBS QPGMR	MM	STRSBS SBSD(QPGMR)
Start SBS QSYSOPR	MM	STRSBS SBSD(QSYSOPR)
Start SBS QSPL	MM	STRSBS~SBSD(QSPL)
Start SBS QCMN	MM	STRSBS SBSD(QCMN)
Start SBS QSNADS	MM	STRSBS SBSD(QSNADS)
Start printer SYSPRT	MM	STRPRTWTR DEV(SYSPRT)
Start spool distributors	NW	STRSBS SBSD(DSTSPLF)
Initiate ENDDAY	MM	SBMENDDAY
Delete ADS overrides	MM	DLTADSOVR
Start Clean Up	MM	QSYS/STRCLNUP
NW = Network Manager MM = Machine Manager		

Manage Auto Day-start Jobs Selection Window



To display this window, select the **Auto Day-start Jobs** activity from Machine Manager.

Select one of your auto day-start jobs to maintain it, apply an override or enquire on the history.

Note: Jobs which are scheduled to run as part of the next day start are highlighted.

0	Seqn	Job Name	SMTWTFS /Group	Last Run	Duration	St	Description
<input checked="" type="checkbox"/>	000010	BTCH_ALLOC	1111111	140308	0:00:37	RS	desc
<input type="checkbox"/>	000020		0000000		0:00:00		Start QINTER
<input type="checkbox"/>	000040	L1_STRJOBS	0111110	140308	0:00:11	RS	Start background job
<input type="checkbox"/>	000050	L1_STRJOBS	0111110	140308	0:00:09	RS	start R22 subsystem
<input type="checkbox"/>	000054	L1_STRSBS	0111110	140308	0:00:02	RS	Start T23 background
<input type="checkbox"/>	000055	L1_STRJOBS	0111110	140308	11:45:43	RS	start T23 subsys job
<input type="checkbox"/>	000056		0111110	260608	0:00:00	RF	WFBACK2 subsystem st
<input type="checkbox"/>	000057		0111110	260608	0:00:02	RS	Start WM Engine
<input type="checkbox"/>	000060		0000000		0:00:00		Start QBATCH
<input type="checkbox"/>	000070		0000000		0:00:00		Start QSPL
<input type="checkbox"/>	000080	MRPAUTOCTL	0111110	140308	0:00:15	RS	Run MRP
<input type="checkbox"/>	000090	DUTY_RUN	1111111		0:00:00	RN	Bond Duty Run DB/CUS

Jobs in high intensity are due to run tomorrow.
 RUNADSJOB last executed by STUIEVANEL QSECOFR 121440 3/07/08 11:53:29

Fields

Option (O)

Enter one of the following:

1 - Select one or more jobs to maintain.

If you select more than one job, **Machine Manager** pages through the tasks you have selected. You can change the job name, description and timing of the selected auto day-start jobs.

2 - Force the job to run as part of the next day-start.

This override is re-set if the Delete ADS Overrides task is run as the last auto day-start job.

3 - Prevent the job from running as part of the next day start.

This override is re-set if the Delete ADS Overrides task is run as the last auto day-start job.

Note: Entering 2 or 3 will override whatever is indicated by the SMTWTFS/Group column.

Note: The overrides are removed any time the command DLTADSOVR is executed. They can also be maintained in the Details window.

9 - Display the [Source](#) Job History pop-up, with a listing of the runs for the selected job.

You can drill down to greater detail from that pop-up. For more information, refer to the Display [Source](#) Job History Pop-up section of this product guide.

Seqn

This shows the sequence number of the job, which determines the order in which jobs are executed.

Job Name

This shows the job name, if the task is to be submitted for batch processing.

SMTWTFS/Group

This shows either a day mask, indicating on which day(s) the task will be executed, or the name of a schedule group with which the job is associated.

Overrides (Ovr)

A **1** in this field indicates that the task will be run as part of the next day-start. A **0** indicates that the task will not be run as part of the next day start.

Last Run

This is the date when the job was last executed.

Duration

This is the time taken to complete the job the last time it was executed.

St

This is the completion status of the job the last time it was executed.

Status codes are:

RF - Run Failed

RI - Run in Progress

RN - Never Run

RS - Ran Successfully

SF - Submit Failed

SS - Submitted Successfully

QS - Scheduled Successfully

Description

This is the description of the job.

Functions

F20=MNGADEJOB

Use this to go straight to the Manage Auto Day-end Jobs activity. This toggles with **F19=MNGADSJOB** to move between the two windows.

F22=Resequence

A confirmation window is displayed. Use this when you have inserted new auto day-start jobs into the existing sequence numbers. This will tidy up the sequence numbers by generating new sequence numbers in increments of 10.

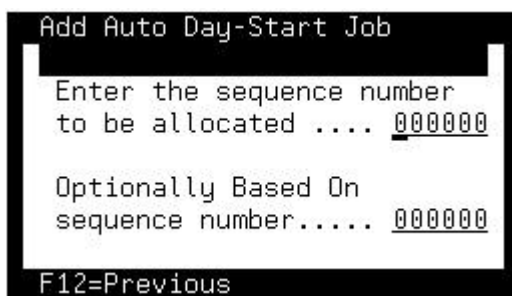
Warning: If you resequence and you are using command SBMMMJOB then you will need to use the updated sequence numbers.

➔ Select **F8=Add** to add a new day-start job.

Add Auto Day-start Job Pop-up

➔ To display this pop-up, select **F8=Add** on the Auto Day-start Jobs Selection window.

Use this pop-up to add a new sequence number. You can base this on one of your existing jobs.



```
Add Auto Day-Start Job
Enter the sequence number
to be allocated .... 000000

Optionally Based On
sequence number..... 000000

F12=Previous
```

You must add a sequence number (or 0000 will be used) and if the new job is similar to an existing job, enter that sequence number as a basis for creation.

➔ Press **Enter** to display the Manage Auto Day-start Jobs Detail window.

Manage Auto Day-start Jobs Detail Window



To display this window, add a new job or select to maintain an existing job on the Manage Auto Day-start Jobs Selection window.

Use this window to change the details of the selected auto day-start job. You can change any of the details entered when the job was first added. Maintenance options include executing as an ad-hoc run, deleting and viewing the job history.

Note: Use this entry for maintaining as well as adding an auto day-start job.

```

Manage Auto Day-Start Jobs
Sequence . . . 000020 Update   Start QINTER
Job name . . . _____ Blank for job to be run rather than submitted.

Request data. . STRSBS SBSB(QINTER)
_____
_____

Day mask . . . 0000000 SMTWTFS Enter 1=Run, 0=No run for each day
Override . . . _ 1=Force run tomorrow, 0=Force no run
Scheduled time 09:09:09 999999 to run at day start
Schedule group _____
Last submitted . 000000 000000
Last run started 000000 000000 Job status . Sequence number already u

F3=Exit F4=Browse F5=Refresh F9=Run History F11=Delete F12=Previous
F13=Clear F16=Execute F18=Update with errors F20=Application Mgr jobs
  
```

Fields

Desc

You must enter a description for the job.

Job Name

Enter the job name, if the job is to be submitted.

Note: If the job you want to run has been defined as an Application Manager job (via **F20**) leave the Job Name field blank. When the job is submitted, the job name is taken from the Application Manager task details.

Request Data

Specify a valid command which the job is to execute, for example:

```
STRSBS SBSB(QINTER)
```

This command starts subsystem QINTER.

This is provided as a standard job. Refer to the Select Auto Day-start (or Day-end) Jobs section of this product guide.

Note: Select **F4=Prompt** either to prompt on an entered command or to display the Standard IBM Major Command Groups menu so you can select any standard IBM command.

Note: When adding a new job, you can use **F10=Standard Jobs** or **F20=Application Manager Jobs** where appropriate to provide a fast method of completing the window.

Day Mask

Enter a day mask indicating on which day or days you want the job to be executed. **1** indicates that the job should be performed on a particular day and **0** that it should not.

Override

Enter one of the following:

0 - Prevent the job from running at the next day start.

1 - Force the job to be run at the next day start.

Note: The Delete Auto Day-start Overrides command re-sets the overrides. A standard job is supplied with Machine Manager so you can set up the delete overrides task. For more information, refer to the Select Auto Day-start (or Day-end) Jobs section of this product guide.

Scheduled Time

The time defaults to 99:99:99, which means that the job will run as part of the day-start jobs, using the sequence number to determine when the job should be run.

If you enter a specific time, then the execution of the job is controlled by the Job Scheduling program. For more information, refer to the section on Job Schedules in this product guide.

Schedule Group

You can use this to specify the date or dates on which you want the job to run. The dates are maintained via Group Schedules (for more information, refer to the Group Schedules section of this product guide). Enter the name of the schedule group you want to associate with this job.

Note: For each job you can enter either a schedule group or a day mask.

Functions

F9=Run History

Use this to display the Display [Source](#) Job History Pop-up, with a listing of the runs for the selected job. You can drill down to greater detail from that pop-up. For more information, refer to the Display [Source](#) Job History Pop-up section of this product guide.

F10=Standard Jobs

Use this to list the standard jobs which you may want to run. Selecting one of the jobs will automatically complete all the relevant fields on the

window. These standard jobs are described in the Select Auto Day-start (or Day-end) Jobs section of this product guide.

F15=WRKJOB by Name

Use this to run the IBM command WRKJOB (Work with Job) to display information about the job from its last execution.

Note: If the job has completed and is no longer in the system then there will be no details to display.

F16=Execute

Use this to execute the job immediately. A window enables you to change the parameters of the job for this run. Select **F16** again to confirm that you want to execute the job.

F17=Wrkjob

Use this to run the IBM command WRKJOB (Work with Job) to display information about the job from its last execution.

Note: If the job has completed and is no longer in the system then there will be no details to display.

F18=Update with Errors

If there are currently errors in the command you have entered, for instance because an object does not exist in the current library list, but will be in the library list at the time of execution, you can force the command to be accepted by selecting **F18**.

F20=Application Mgr Jobs

Use this to set up an [Application Manager](#) job as part of your day-start jobs. For more information, refer to the Set Up Application Task section of this product guide.



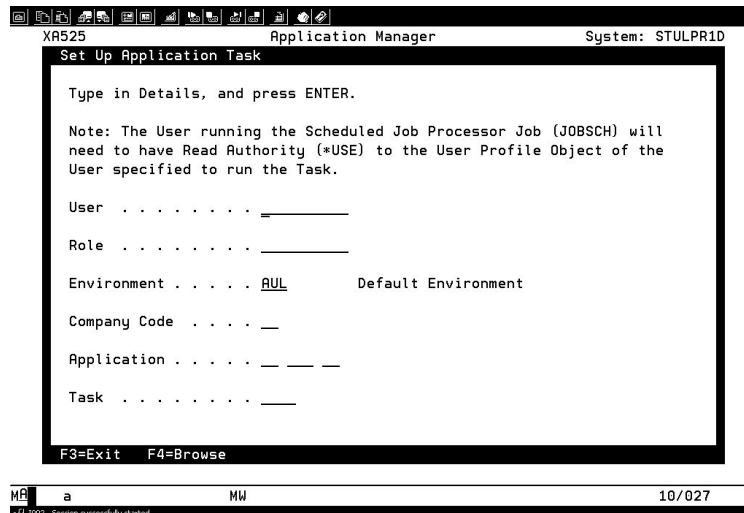
Press **Enter** to validate and update the details.

Set Up Application Task Window



Select **F20=Application Mgr Jobs** to set up an Application Manager Job as part of your day-start or day-end routines. The Set Up Application Task window is displayed.

Use this window to enter the task details.



Fields

User

Enter the user ID of the user who will be running the task. This determines the appropriate job and output queue overrides. For further details, see the Maintain User Profiles section of the Administration Functions product guide.

Role

Note: This field is only available if role processing is active.

Enter the role that will be used for this task. The user must be authorised to the role.

Note: If role processing is active and the Role field is left blank, the user's default role will be used.

Environment

Enter a three-character code, which specifies the [Application Manager](#) environment in which the task will be run. For example, TST could be used to describe a test environment.

Company Code

Enter the two-character code to identify the company for which the task should be run.

Note: If you want to run the same task for many companies, you will need to set up many jobs, with each one identifying a different company.

Application

You must enter the details to identify the application as follows:

The first two characters represent the application code, for example, IN for Inventory Management.

The next three characters represent the application version. This is blank for standard System Manager applications.

The last two characters represent the application release code, for example, 01 for Version 1.0.

Note: Application ID, version and release together form the unique identification for the application. For further details, see the Maintain Applications section of the Application Manager product guide.

Note: This activity does not support tasks that are IPG/400 function lists. Function lists are designed to be run interactively and thus are not suited to scheduling.

Task

Enter a numeric code to identify a task to run from the specified application. For further details, see the Maintain Tasks section of the [Application Manager](#) product guide.

Note: If the application task you have selected requires selection parameters, then the selection windows are automatically displayed. The product guide for the application you have selected will contain full details of the required parameters. You should complete the window by entering the selection criteria you require.

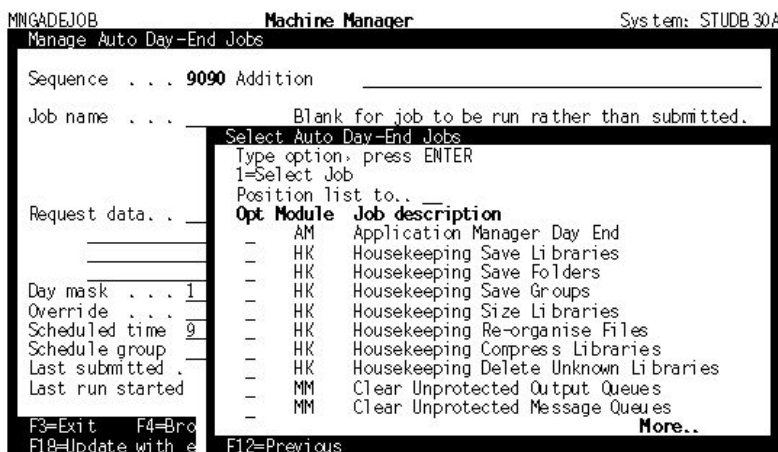
Note: If the task you have selected is interactive, Machine Manager will not process it.

For example, if you have chosen to run the task List Supplier Names & Addresses from Accounts Payable, then the List Supplier Names & Addresses section window is displayed.

Select Auto Day-start (or Day-end) Jobs Pop-up

 To display this pop-up, select **F10=Standard Jobs**, when adding a job.

Machine Manager is shipped with a number of default routines and a Standard Jobs facility. This facility enables you to select a day-start or day-end job from a pop-up, and, as a result of selecting a standard job, all of the required parameters for the job are automatically completed.



Fields

Option (Opt)

Enter **1** alongside the job you want to run.

The window displays details of the System Manager module to which the job belongs.

The jobs supplied as standard jobs are those that the majority of IBM iSeries 400 installations would want to use to manage and control their processor. The Standard Day-start Jobs and Standard Day-end Jobs sections of this product guide provide a summary of the standard jobs supplied.

Manage Auto Day-end Jobs

Use this activity to create and maintain the tasks which are part of the daily day-end activities, that is, those tasks you want to perform before the system power down.

Standard Day End Jobs

The following jobs are supplied as Standard Day-end Jobs.

Manage Auto Day-End Jobs Window



To display this window, select the **Auto Day-end Jobs** activity from Machine Manager.

Select one of your automatic day-end jobs to maintain, override or to enquire on the run history.

Note: Jobs that are scheduled to run as part of the next day end are highlighted.

```

Manage Auto Day-End Jobs
Type in Options, and press ENTER.
1=Select, 2=Override ON, 3=Override OFF, 9=Run History
Position List to . . .
0  Seqn  Job Name  SMTWTFS  Last  Duration St Description
-  -    -    -    -    -    -    -
000005  GL_EXTRACT 1111111  130308  0:03:28 RS ax
000900  BTCH_ALLOC 1111111  130308  0:00:24 RS Batch Allocation
000901  BATCHALLOC 0111110  130308  0:00:10 RS Batch Allocation
000902  OM_BTCHSRC 1111111  220508  0:00:01 RS Batch sourcing
000910  OE_SNDINV  1111111  130308  0:00:24 RS STYLE -RUN AI INVOIC
000950  L1_STPJBS  1111111  60508   0:00:03 RS Stop T23 Background
000951  L1_STOPSBS 1111111  60508   0:00:03 RS Stop T23 Backgournd
000960  L1_STPJBS  1111111  60508   0:00:01 RS Stop R22 Background
000961  L1_STOPSBS 1111111  60508   0:00:02 RS Stop R22 Backgournd
000970  L1_STPJBS  1111111  60508   0:00:01 RS Stop T22 Background
000971  L1_STOPSBS 1111111  60508   0:00:01 RS Stop T22 Backgournd
001000  IN_QTALREC 1111111  120308  0:00:00 SS Reconcile allocated
More...
Jobs in high intensity are due to run tonight.
RUNADEJOB last executed by JOBSCH  DFTADMIN  107681 13/03/08 19:35:07
F3=Exit  F5=Refresh  F8=Add  F19=MNGADSJOB  F22=Resequenece

```

Fields

Option (O)

Enter one of the following:

1 - Select one or more jobs for maintenance.

If you have selected more than one job the system will page through the jobs you have selected. The Maintaining Auto Day-end Jobs section of this product guide describes the maintenance of auto day-end jobs.

2 - Force the job to run as part of the next day end.

This override will be re-set if the Delete ADE Overrides task is run as the last auto day-end job.

3 - Prevent the job from running as part of the next day end.

This override will be re-set if the Delete ADE Overrides task is run as the last auto day-end job.

Note: Entering 2 or 3 will override whatever is indicated by the SMTWTFS/Group column.

Note: The overrides are removed any time the command DLTAEDEOVR is executed. They can also be maintained in the Details window.

9 - Display the Display [Source](#) Job History Pop-up, with a listing of the runs for the selected job. You can drill down to greater detail from that pop-up.

Seqn

This shows the sequence number of the job, which determines the order in which jobs are executed.

Job Name

This shows the job name, if the job is to be submitted for batch processing.

SMTWTFS/Group

This shows either a day mask, indicating on which day(s) the task will be executed, or the name of a schedule group with which the job is associated.

Overrides (Ovr)

A **1** in this field indicates that the task will be run as part of the next day end. A **0** indicates that the task will not be run as part of the next day end.

Last Run

This is the date when the job was last executed.

Duration

This is the time taken to complete the job the last time it was executed.

St

This is the completion status of the job the last time it was executed.

Status codes are:

RF - Run Failed

RI - Run in Progress

RN - Never Run

RS - Ran Successfully

SF - Submit Failed

SS - Submitted Successfully

QS - Scheduled Successfully

Description

This is the description of the job.



Select **F8=Add** to add a new job.

Add Auto Day-end Job Pop-up



To display this pop-up, select **F8=Add** on the Auto Day-end Jobs Selection window.

Use this pop-up to add a new sequence number. You can base this on one of your existing jobs.

You must add a sequence number (or 0000 will be used) and if the new job is similar to an existing job, enter that sequence number as a basis for creation.



Press **Enter** to display the Manage Auto Day-end Jobs Detail window.

Manage Auto Day-end Jobs Detail Window



To display this window, add a new job or select to maintain an existing job on the Manage Auto Day-end Jobs Selection window.

```

Manage Auto Day-End Jobs
Sequence . . . 900000 Update   Power Down the System
Job name . . . _____ Blank for job to be run rather than submitted.

Request data. . SBMPWRDWN

Day mask . . . 0000000 SMTWTFS Enter 1=Run, 0=No run for each day
Override . . . _ 1=Force run tonight, 0=Force no run
Scheduled time 99:99:99 999999 to run at day end
Schedule group _____
Last submitted . 000000 000000
Last run started 000000 000000 Job status . Sequence number already u

F3=Exit F4=Browse F5=Refresh F9=Run History F11=Delete F12=Previous
F13=Clear F16=Execute F18=Update with errors F20=Application Mgr jobs
  
```

Fields

Description (Untitled)

You must enter the description of the job.

Job Name

Enter the job name if the job is to be submitted.

Note: If the job is defined as an Application Manager job (via **F20**) leave the Job Name field blank. When the job is submitted the job name defaults from the Application Manager task details.

Request Data

Specify a valid command which the job is to execute, for example:

```
CLRUNPOUTQ
```

This command clears out unprotected output queues.

Note: Select **F4=Prompt** to prompt on a command or, if you have not entered a command, this displays the Standard IBM Major Command Groups menu so you can select any standard IBM command.

Note: When adding a new job, you can use **F10=Standard Jobs** or **F20=Application Manager Jobs** where appropriate to provide a fast method of completing the window.

Day Mask

Enter a day mask indicating on which day or days you want the job to be executed. **1** indicates that the job should be performed on a particular day and **0** that it should not.

Override

Enter one of the following:

0 - Prevent the job from running at the next day end.

1 - Force the job to be run at the next day end.

Note: The Delete Auto Day-end Overrides command re-sets the overrides. A standard job is supplied with Machine Manager so you can set up the delete overrides task. For more information, refer to the Select Auto Day-start (or Day-end) Jobs section of this product guide.

Scheduled Time

The time defaults to 99:99:99, which means that the job will run as part of the day-end jobs, using the sequence number to determine when the job should be run.

If you enter a specific time, then the execution of the job is controlled by the Job Scheduling program. For more information, refer to the section on Job Schedules in this product guide.

Schedule Group

You can use this to specify the date or dates on which you want the job to run. The dates are maintained via Group Schedules (for more information, refer to the Group Schedules section of this product guide). Enter the name of the schedule group you want to associate with this job.

Note: For each job you can enter either a schedule group or a day mask.

Functions

F9=Run History

Use this to display the Display [Source](#) Job History Pop-up, with a listing of the runs for the selected job. You can drill down to greater detail from that pop-up. For more information, refer to the Display [Source](#) Job History Pop-up section of this product guide.

F10=Standard Jobs

Use this to list the standard jobs which you may want to run. Selecting one of the jobs will automatically complete all the relevant fields on the window. These standard jobs are described in the Select Auto Day-start (or Day-end) Jobs section of this product guide.

F15=WRKJOB by Name

Use this to run the IBM command WRKJOB (Work with Job) to display information about the job from its last execution.

Note: If the job has completed and is no longer in the system then there will be no details to display.

F16=Execute

Use this to execute the job immediately. A window enables you to change the parameters of the job for this run. Select **F16** again to confirm that you want to execute the job.

F17=Wrkjob

Use this to run the IBM command WRKJOB (Work with Job) to display information about the job from its last execution.

Note: If the job has completed and is no longer in the system then there will be no details to display.

F18=Update with Errors

If there are currently errors in the command you have entered, for instance because an object does not exist in the current library list, but will be in the library list at the time of execution, you can force the command to be accepted by selecting **F18**.

F20=Application Mgr Jobs

Use this to set up an [Application Manager](#) job as part of your Day-start Jobs. For more information, refer to the Set Up Application Task section of this product guide.

Chapter 2 - Processes

Machine Manager Jobs Introduction

Machine Manager with Subsystem QBASE

On delivery from IBM, the iSeries 400 may be configured to use subsystem QBASE for all batch and interactive jobs. Most users will change the system configuration to use subsystem QINTER for interactive jobs and QBATCH for batch jobs. **Machine Manager**, as delivered, assumes this to be the case. For smaller users, the system may not be re-configured.

On machines where the controlling subsystem is still QBASE, the job queue specified in the job description MMJOBSCH may need to be changed.

Power Down Submission

Subsystem QBASE will have MAXJOBS(*NOMAX) specified and be fed by several job queues. The Power Down job should also be submitted to whichever queue is to be used to submit the day-end jobs to batch. This would normally be job queue QBATCH. To do this, change job description PWRDWN SYS to submit to this queue. The run priority should be 9. To run successfully, job queue QBATCH should be set to MAXJOBS(1) in its job queue entry of QBASE.

Machine Manager Power Down Parameters

The power down parameters for your iSeries are held in data area MMPWRDWN in library AULAMP3. This is a 250-character data area containing the normal and override parameters. The format is:

Description	Start Position	Length
Option (*CNTRLD/*IMMED)	1	7
Delay Time	8	8
Restart (*YES/*NO)	16	4
Power Down Limit 1 (HHMMSS)	29	6
RUNADSJOB (*YES/*NO)	35	4
Override Option	41	7
Override Delay	48	8
Override Restart	56	4
Override Power Down Limit 1	69	6
Override RUNADSJOB	75	4
Last SBM PWRDWN Date (YYMMDD)	81	6
Last SBM PWRDWN Time (HHMMSS)	87	6
Last SBM PWRDWN Date (YYMMDD)	93	6
Last SBM PWRDWN Time (HHMMSS)	99	6
Last SBM PWRDWN Action (1=PWRDWN SYS, 2=RUNADSJOB)	105	1
Power Down Job I.D. (Job Name/User/Job No.)	106	26
Message Queue/Library	132	20
IPL Date (YYMMDD)	161	6
IPL Time (HHMMSS)	167	6
Override IPL Date (YYMMDD)	173	6
Override IPL Time (HHMMSS)	179	6
Power Down Limit 2 (HHMMSS)	185	6
Override Power Down Limit 2 (HHMMSS)	193	6
Power Down Time (HHMMSS)	201	6
Override Power Down Time (HHMMSS)	207	6

Job Schedules

Using Job Queues and Subsystems

This section deals with the types of job queues and subsystems that are routinely used in [Machine Manager](#).

Job Scheduler

All day-start and day-end jobs are submitted to the [Machine Manager](#) Job Scheduler. This controls their execution, either running them on the next activation of the scheduler or at the required time. The scheduler may be activated by the MMSTRPGM System Start Up program or by the RUNADSJOB command by **F21** from the [Machine Manager](#) main menu. Alternatively, you can use MMSTRDAY. The scheduler is submitted as a batch job and should be submitted to your controlling system, normally QCTL. The queue to be submitted to is controlled via job description MMJOBSCH.

If for whatever reason the scheduler is not running and you want to start it, you may use the command SBMJOBSCH. This command re-starts the job scheduler. It will not re-schedule the day start jobs. However, it will process any jobs that are on the job schedule. For information on examining jobs on the job schedule, see the Job Schedules section.

You may experience authority problems when the scheduler attempts to submit jobs. This occurs because the scheduler is run by a single user profile (the default is TSTADMIN) and is attempting to submit jobs (SBMJOB) for user profiles for which it does not have authority. This problem can be overcome by changing the user in job description MMJOBSCH to a user that does have authority to use other user profiles or by granting authority to your [MM](#) scheduler user profile so that it has at least *USE rights for any user profile that it will need to reference.

The job description can be maintained through System Properties Maintenance in the Administration Functions. See the Administration Functions product guide for more details.

Manage Jobs Scheduled Window



To display this window, select the **Job Schedules** activity from the Machine Manager Main Menu.

Use the Job Schedules activity to maintain the jobs scheduled to be run. The following jobs will be included in the schedule:

1. Auto day-start and auto day-end jobs due to run during the current day with explicit schedule times
2. Jobs scheduled using the prompt facility with Application Manager

For more information, refer to the section on Submitting Batch Jobs to the [Machine Manager Scheduler](#) in the [Application Manager](#) product guide.

1. Jobs you have added directly to the schedule using this activity
2. The scheduler will contain auto day-start jobs without explicit times that are due to be run during the current day; these will be executed in order of their sequence numbers. These jobs will be included in the scheduler by the Machine Manager System Start Up program. For more information, see the Power Down Times section in this product guide.
3. The scheduler will contain auto day-end jobs without explicit times that are due to be run during the current day; these will be executed in order of their sequence numbers. These jobs will be included in the scheduler by the Machine Manager end day function. For more information, see the End-Day Times section of this product guide.

Once a scheduled job has completed processing, it is automatically removed from the scheduled job list.

```

MM141                Machine Manager                System: STUDB30A
Manage Jobs Scheduled
Type option, press Enter                Current Date: 5/07/91
2=Change, 5=Display                      Time: 17:22:05
                                           Next active: 21:08:16

Opt   Time   Seq.No. Description
-    5:00:00   1   Initiate End Day Program
-    12:00:00  2   Run Business Modeller Reports
-    16:00:00  3   Send early close message to all users

                                           Bottom
Change schedule time of selected jobs to ..
F3=Exit  F8=Add
    
```

Fields

Option (Opt)

Enter one of the following:

- 2 - To maintain any existing jobs
- 5 - To display the details of existing jobs

Note: If you maintain a job that has been added to the job schedules list as a result of being either a auto day-start or auto day-end job, then maintaining its details within Job Schedules will only change the details for the current day's run and not alter the permanent details of the job.

Time

Use this field to change the schedule time of selected jobs, if you have selected option 2.

Note: If you schedule many jobs to be executed at the same time, then the sequence number will be used to determine the order in which the jobs should be executed.

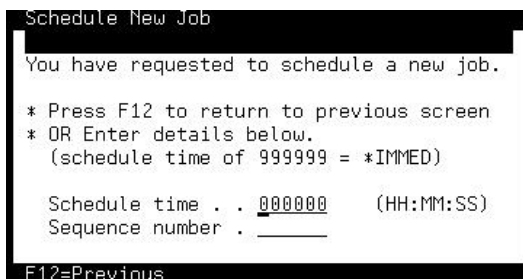


Select **F8=Add** to create additional jobs to be run during the current day.

Schedule New Job Pop-up

➔ To display this pop-up, select **F8=Add** on the Manage Jobs Scheduled pop-up.

Use this pop-up to add the time of the job schedule, and if more than one job is scheduled at the same time, enter a sequence number.



Fields

Scheduled Time

Enter the time at which you want the job to be executed.

Sequence Number

Enter a sequence number for this new job.

If you have many jobs scheduled to run at the same time then the sequence number determines the order of execution.

➔ Enter the time and sequence and press **Enter**.

Manage Scheduled Jobs Details Window



To display this window, complete the Schedule New Job pop-up and press **Enter**.

Use this window to enter the schedule details for the job.

```

MM141                               Machine Manager                               System: STUDENT
Manage Scheduled Jobs
Sequence Number . . . 0001                                                    *ADD
Description . . . . Back Up Data files                                         SCHEDULED JOB
Scheduled time. . . . 24:00:00        (999999=Immediately)
Request data. . . . .
Request data. . . . .
Request data. . . . .
Job name. . . . .                    (leave blank if not a batch job)
-
F3=Exit  F4=Prompt  F12=Previous  F20=Application Mgr Job
    
```

Fields

Sequence Number

This is as entered on the previous pop-up.

Description

You must enter a description for the job.

Scheduled Time

This is the time the job is to be executed from the previous pop-up. Enter a time of **99:99:99** for the job to be run immediately.

Request Data

Specify a valid command, which the job is to execute, for example:
SBMDBJOB FILE(filename).

Note: Select **F4=Prompt** either to prompt on a command you have entered or, if you have not entered a command, to display the Standard IBM Major Command Groups menu so you can select any standard IBM command.

Job Name

Enter the job name, if the job is to be submitted.

Tip: If you enter a job name you will be prompted to enter the following details:

Job User

Enter the name of the user profile to be associated with the job when it is processed by the system.

Job Queue

Enter the name of the job queue in which the job is placed.

Job Description

Enter the job description for this job.

Job Priority

Enter the job queue scheduling priority. Valid values are 1 to 9, where 1 is the highest priority and 9 the lowest priority.

Message Queue

Enter the name of the message queue to which messages about this job should be sent.



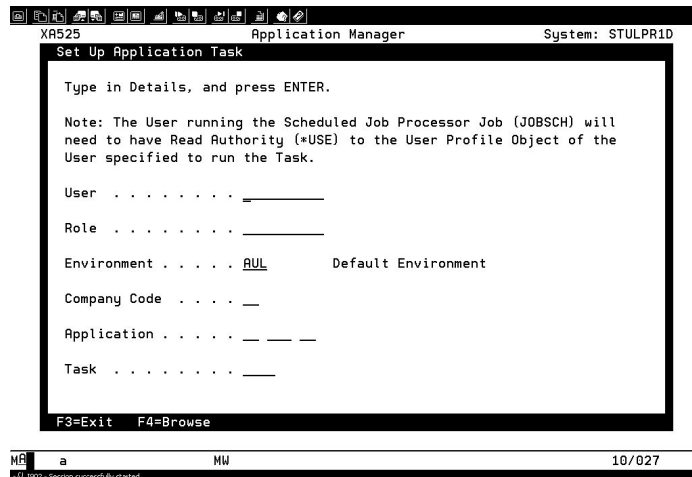
Press **Enter** to save the details you have entered.

Set Up Application Task Window



To display this window, select **F20=Application Mgr Job** on the Manage Scheduled Jobs window.

Enter the details of the job being run through [Application Manager](#).



Fields

User

Enter the ID of the user that will run the task. This determines the appropriate job and output queue overrides. For further details, refer to the Maintain User Profiles section of the Administration Functions product guide.

Role

Enter the role that the use will be using to run the task.

Note: This field will only be displayed if role processing is active.

Environment

Enter a three-character code that identifies the [Application Manager](#) routine environment that the tasks will run in. For example, TST may be used to describe a test environment.

Company Code

Enter the two-character code for the company for which the task is to be run.

Note: If you want to run the same task for many companies you will need to set up many jobs, with each one identifying a different company.

Application

You must enter the details to identify the application:

The first two characters are the application code, for example, IN for Inventory Management.

The next three characters are the application version (environment). This is blank for standard applications.

Use the last two characters for the application release code. For example, Version 3 of Inventory Management will have a release code of 03.

Note: Application ID, Version and Release together are the unique identification for the application. For further details see the Maintain Applications section of the Application Manager product guide.

Task

Enter a numeric code to identify a task to run within the specified application. For further details see the Maintain Tasks section of the [Application Manager](#) product guide.

Note: If the application task you have selected requires selection parameters, then the selection windows are automatically displayed. The product guide for the application you have selected will contain full details of the required parameters. You should complete the window by entering the selection criteria you require.

Note: If the task you have selected is interactive, Machine Manager will not process it.

End Day Times

The purpose of the End Day Times is to control the time when the day-end processing is initiated.

The day-end function will add those auto day-end jobs, that are due to be run on the current day to the Job Scheduler at the current end-day initiation time. For more information, refer to the Job Schedules section of this product guide.

The standard job SBMENDDAY is supplied with [Machine Manager](#) to control the end-day initiation. You should set this up as an auto day-start job. This job will then be added to the Job Scheduler by the [Machine Manager](#) System Start Up program as part of the day-start jobs. It will schedule the end-day process to begin at the current end-day initiation time. For more information, refer to the Manage Auto Day Start, Standard Jobs and Job Schedules sections of this product guide.

Note: You can check that the end-day jobs are scheduled by selecting Job Schedules from the Machine Manager Main Menu.

Manage End Day Initiation Window



To display this window, select the **End Day Times** activity from Machine Manager.

Use this window to manage the end day job timing parameters.

```

MNGENDDAY                Machine Manager                System: STUDENT
Manage End Day Initiation

Current ENDDAY initiation time. . 22:00:00
Normal ENDDAY initiation time . . 22:00:00
Status. . . . . Waiting
Warning delay time (minutes). . . _5      (0 = No Warning)

ENDDAY job . . . . . 160037 QPGMR      JOBSCH      ACTIVE
Submitted by . . . . . 160507 QPGMR      JOBSCH      NOT IN SYSTEM

Initiator started. . . . 14/06/99 22:12:16
RUNADEJOB started. . . . 14/06/99 22:17:36  _

F3=Exit  F5=Refresh  F6=End Day Messages  F8=Update
    
```

MA a 18/050

Fields

Current Endday Initiation Time

This is the current time specified for the end-day initiation program to commence.

Normal Endday Initiation Time

This is the system default time specified for the end-day initiation program to commence.

Note: To change the time, you must change the Job Scheduler. This is done automatically by entering the new time and selecting **F7=Resubmit**.

Status

This is the current job status. When the auto day-start job runs, the status will be shown as SUBMITTED, quickly followed by one of WAITING. When the delay time has been reached, the status becomes RUNNING. On completion of the auto day-end jobs, the status becomes NOT ACTIVE.

Note: If the status remains SUBMITTED for any length of time (more than the time taken to transfer from the job queue to the subsystem) then you should investigate the reason for this.

Warning Delay Time

Specify the warning delay time (in minutes). A message will then be sent to all active windows warning of the time remaining before end-day initiation. When the warning time has elapsed, the status changes from WARNING to ACTIVE.

Note: Additional functions become available when the job status is Active.

Endday Job

This is the job number, the user name of the user who submitted the job, and the job name of the end-day job.

Submitted By

This is the job number, the user name of the user who submitted the job, and the job name of the job which submitted the end-day command.

Initiator Started

This is the date and time when the initiator last started. The initiator is the job which issues a warning message that the auto day-end jobs are about to commence.

Runadejob Started

This is the date and time at which the auto day-end job last commenced.

Functions:

Note: Some of the following functions will only be displayed if the job is active.

F6=End Day Messages

Use this to display messages from the message queue ENDDAY, for this process. This details all of the messages sent as part of the end-day job.

F7=Resubmit

Use this to re-submit the job.

F9=Execute Now

Use this to start the job immediately, regardless of the initiation time.

F10=Release

Use this to release the job.

F11=Hold

Use this to hold the job.

F13=Change Job

Use this to change the job.

F17=Workwith Job

Use this to work with the job.

F18=End The Job

Use this to end the job.



Select **F8=Update** to update any changes made.

Display Messages Window



To display this window, select **F6=End Day Messages** on the Manage End Day Initiation window.

This window displays the messages from the message queue ENDDAY. As this is an IBM function, please refer to the IBM documentation for more information.

Power Down Times

You use the Power Down Times activity to maintain the parameters which control the automatic power down of your machine. You can change these values permanently, or simply override them for the next day.

To initiate the power down of your system you can specify the command SBMPWRDWN as the request data for an auto day-end job. This has been set up as a standard job. For more information, see the Standard Jobs and Manage Auto Day-End Jobs sections. After the machine has powered down, it will re-start the system immediately or at a specified time and date. When the system has re-started you will want it to run those jobs which you have set up as auto day-start jobs. To implement this automatic scheduling of jobs, you need to change the system value which contains the name of the start up program to a [Machine Manager](#) program (MMSTRPGM or MMSTRDAY in library AULAMP3). To do this, enter the following command:

```
CHGSYSVAL SYSVAL(QSTRUPPGM) VALUE(AULAMP3/MMSTRPGM)
```

Or:

```
CHGSYSVAL SYSVAL(QSTRUPPGM) VALUE(AULAMP3/MMSTRDAY)
```

Note: This will permanently change the system value of the start up program.

The power down parameters are held in a data area. For more information, refer to the Power Down Parameters section.

Manage Power Down Parameters Window



To display this window, select the **Power Down Times** activity from Machine Manager.

Use this activity to maintain the parameters that control the automatic power down of your machine. You can change these values permanently, or simply override them for the next day.

```

MNGPWRDWN          Machine Manager          System: STUDB30A
Manage Power Down Parameters - Normal Parameters

Power down controlled or immediate . . . *CNTRLD  *CNTRLD or *IMMED
Delay time if controlled (seconds) . . . 600      0 - 99999 or *NOLIMIT
Restart after power down . . . . . *YES        *YES or *NO

Auto-IPL (blank=none) date . . . . .           (999999=Next day)
time . . . . .

Do not power down between . . . . . 7:00:00
and . . . . . 19:30:00

Time to execute PWRDWSYS . . . . . 5:30:00
Run RUNADJOB if powerdown not executed. *YES

Last run details:
Submitted . 24/06/91 20:07:34
Last run . 21/06/91 5:30:00
Action . . PWRDWSYS

F3=Exit  F5=Refresh  F6=End Day Messages  F9=Update  F10=Overrides
    
```

Fields

Power Down Controlled or Immediate

Enter one of the following:

***CNTRLD** (default) - All active jobs are ended in a controlled manner, based on the delay time parameter.

***IMMED** - All active jobs are completed immediately.

Delay Time if Controlled

Enter the time, in seconds, that the system will allow for a controlled end to active subsystems. If the controlled end is not achieved in the specified delay time, any remaining jobs are ended immediately. The default is 600 seconds.

Note: You can specify ***NOLIMIT** to ensure that all jobs are completed before the machine is powered down.

Restart after Power Down

Enter one of the following:

***NO** - The system ends all jobs and powers down.

***YES** - The system ends all jobs and powers down and then restarts (**IPL**).

Auto IPL Date/Time

Specify the date (if required) and time for **IPL**. This will change the system value QIPLDATTIM.

Do Not Power Down Between/And

Specify the time range during which the system will not power down. This would usually be during normal working hours.

Time to Execute Pwrdownsys

Specify the time to execute the power down system command. This cannot be during the time specified above. If a time is entered and the day-end jobs complete before the power down time, the job will wait until the given time before powering down.

Run Runadsjob if Powerdown Not Executed

Enter one of the following:

***YES** - If the power down system command is not executed, then the auto day-start jobs will still be run.

***NO** - If the power down system command is not executed, then the auto day-start jobs will not run. Note that if the time limit is exceeded, the cycle must be re-started manually by running the auto day-start jobs (see the Maintaining Auto Day-Start Jobs section of this product guide).

Functions

F6=End Day Messages

Use this to display messages from message queue ENDDAY relating to this process.

F10=Overrides

The override parameter fields can be used to alter the parameters for the next Power Down. Subsequent executions of the Power Down command will use the normal parameters.



Select **F8=Update** to update any changes made.

Job Schedule Times

This activity controls the delay time between which the job schedules are examined for processing. See the Job Schedules section of this product guide for more details about job schedules. The sleeper job performs the following functions:

- It looks at the schedule of jobs to run. For more information, see the Job Schedules section of this product guide.
- It determines if there are any jobs to be run by selecting those jobs with a scheduled time that is less than the current time and greater than the time at which the sleeper was last activated.
- It executes the jobs in time and sequence number order.
- Once a job has been executed, it deletes its details from the job schedules file.

Warning: If you schedule interactive jobs, rather than batch jobs, the sleeper job is active for the whole time the interactive job is active. This could severely disrupt the expected sequencing of jobs.

Manage Jobs Schedule Time Window



To display this window, select the **Job Schedule Times** activity from Machine Manager.

Use this window to maintain the job schedule times.

```
MNGSCHTIM          Machine Manager          System: STUDB30A
Manage Jobs Schedule Time

Current delay time (secs) . . . . 300
Normal delay time (secs) . . . . 300

Status . . . . . Waiting

Last activated date . . . . . 24/06/91
                time . . . . . 21:03:16

Last completed date . . . . . 24/06/91
                time . . . . . 21:03:16

Next activation date . . . . . 24/06/91
                time . . . . . 21:08:16

F3=Exit  F7=Run Day Start  F8=Update
```

Fields

Current Delay Time

Use this field to change the wait time that follows the next activation of the sleeper job. The time is expressed in seconds.

Normal Delay Time

Use this field to change the normal delay time between each activation of the sleeper job. The time is expressed in seconds.

Status

The sleeper job could be in either of the following status types:

Waiting - The sleeper is inactive and waiting for its next activation.

Processing - The sleeper job has been activated and is now processing scheduled jobs.

Last Activated

This is the date and time the sleeper job was last activated.

Last Completed

This is the date and time that the sleeper job last completed processing.

Note: If you are scheduling batch jobs to be submitted, this is not the time when the longest running batch job completed, but the time when the sleeper job had completed the submission of those jobs.

Next Activation

This is the date and time the sleeper job will next be activated.

Functions

F7=Run Day Start

If for whatever reason the sleeper job has not itself been submitted, then use this to activate the job.

Note: The sleeper job will normally be activated by the Auto Day-start routines.



Select **F8=Update** to save the changes.

Group Schedules

Use the Group Schedules activity to create and maintain a set of dates, which determine when you wish a specific job (or a number of jobs) to be run. The jobs are set up as either day-start or day-end jobs (for more information, refer to the Manage Auto Day-Start Jobs and Manage Auto Day-End Jobs sections of this product guide).

Maintain Group Schedule Selection Window



To display this window select the **Group Schedules** activity from Machine Manager.

Use this window to select a Group Schedule Code to maintain or to create a new code.

MM035 Machine Manager System: STUDB30 A
Maintain Group Schedule
Group Schedule Code _____
F3=Exit F4=Browse F19=Header

Fields

Group Schedule Code

Enter the code of the group schedule you wish to maintain. If you wish to create a new group schedule, enter a new five-character code.

Functions

F19=Header

Use this to display a window where you can maintain the 50-character description of each job schedule.



Press **Enter**. If you are creating a new group schedule, and enter a description. If you are maintaining an existing schedule, enter the dates.

Maintain Group Schedules Detail Window



To display this window, enter a group schedule on the Maintain Group Schedule Selection window and press **Enter**.

Use this window to create and maintain schedule dates. You can automatically generate regular dates.

MM035 Machine Manager System: STUDB30.A

Maintain Group Schedules

Group	Description	Action
INV01	Inventory Reports Schedule	*UPDATE

Type changes, press Enter

Seq.No.	Date	Seq.No.	Date	Seq.No.	Date
10	_____	110	_____	210	_____
20	_____	120	_____	220	_____
30	_____	130	_____	230	_____
40	_____	140	_____	240	_____
50	_____	150	_____	250	_____
60	_____	160	_____	260	_____
70	_____	170	_____	270	_____
80	_____	180	_____	280	_____
90	_____	190	_____	290	_____
100	_____	200	_____	300	_____

F3=Exit F9=Generate dates F12=Previous

Fields

Date

You can enter a maximum of 60 dates against sequence numbers. Any date entered must be valid.

Note: If you enter dates out of sequence, they will automatically be re-sequenced for you. Therefore, if you want to add a date into the middle of an existing sequence, add the date to the end of the list and then press **Enter** to re-sequence.



Select **F9=Generate Dates** to generate a series of dates.

Generate Dates Pop-up



To display this pop-up select **F9=Generate Dates** on the Maintain Group Schedules Detail window.

The generate dates facility automatically generates a set of dates based on given parameters.

Fields

Start Date for the Sequence

Enter the date from which to start the sequence of generated dates. This field defaults to today's date.

Number of Dates to Generate

Enter the number of dates, between 1 and 60, to be automatically generated.

Last Day in Each Month

Enter **1** if you want the generated dates to be the last day of each month.

A Day in Each Month

To run jobs on a specific date in each month then enter that number. For example, enter 28 for the 28th of each month.

Note: The day numbers 29, 30 and 31 could be invalid depending on how many dates you generate and where you start the generation.

Number of Days Interval

To generate a series of dates with a set interval between them, enter the number of days. The interval entered can be between 1 and 99 days.



Press **Enter** to generate the dates.

Note: A set of automatically generated dates can be maintained manually or regenerated.

Protected Queues

All output, job and message queues, except those on a protected list, can be cleared by use of auto day-end standard jobs. For more information, refer to the Select Auto Day-Start (or End) Standard Jobs and Manage Auto Day-End Jobs sections of this product guide.

Any job, message or output queue can be protected from clearance. Three protected queue activity are available to protect job, message and output queues.

- ➔ Select Protected Queues from the Machine Manager Main Menu. The Protected Queues menu is displayed.

Manage Protected Job Queues Window

- ➔ To display this window, select the **Protected Job Queue** activity from Protected Queues.

Use this window to add or maintain job queues which are to be protected from clearance when the auto-day end jobs are processed.

Note: Any job queues not included on this list will be cleared automatically if you have included the standard job Clear Unprotected Job Queues as an auto day-end job. For more information, refer to the Auto Day-Start (Or End) Standard Jobs and Manage Auto Day-End Jobs sections of this product guide.

MM041 Machine Manager System: STUDB30A
Manage Protected Job Queues

Enter names and libraries of queues to be protected.
If a day is set to 1 then the queue will be cleared on that day.
If a day is set to 0 then the queue will not be cleared on that day.

Queue Library	Queue Name	Day Mask SMWTFSS
QGPL	QBASE	0000000
QGPL	QBATCH	0000000
QGPL	QPGMR	0000000
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

F3=Exit Bottom

Fields

Queue Library

Enter the name of the library which contains the queue to be maintained.

Queue Name

Enter the name of the queue to be maintained.

Day Mask

Select the days of the week on which the queue should be retained or cleared by entering values as follows:

0 - Do not clear the job queue on this day of the week.

1 - Clear the job queue on this day of the week.



Press **Enter**.

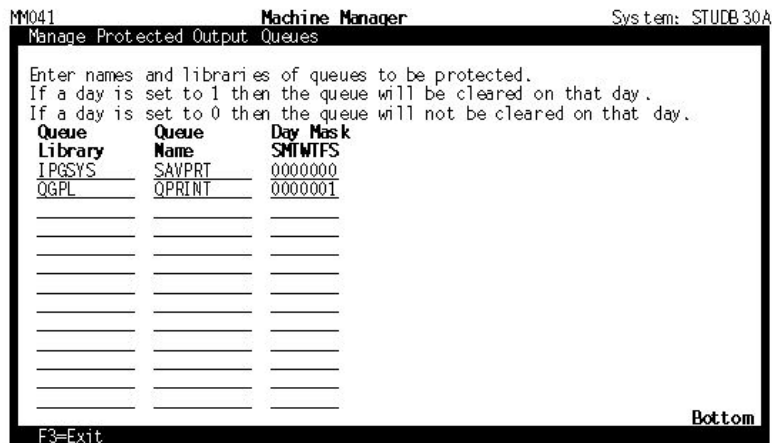
Manage Protected Output Queues Window



To display this window, select the **Protected Output Queues** activity from Protected Queues.

Use this window to add or maintain output queues which are to be protected from clearance when the auto-day end jobs are processed.

Note: Any output queues not included on this list will be cleared automatically if you have included the standard job Clear Unprotected Message Queues as an auto day-end job. For more information, see the Select Auto Day-Start (or End) Standard Jobs and Manage Auto Day-End Jobs sections of this product guide.



Fields

Queue Library

Enter the name of the library which contains the queue to be maintained.

Queue Name

Enter the name of the queue to be maintained.

Day Mask

Select the days of the week on which the queue should be retained or cleared by entering values as follows:

0 - Do not clear the output queue on this day of the week.

1 - Clear the output queue on this day of the week.



Press **Enter**.

Chapter 3 - Operational Enquiries

Introduction to Operational Enquiries

The following enquiries are available to help you manage your system:

- Display Management Log
- Display Run Jobs History Log
- Job Schedule by Date



Select Operational Enquiries from the Machine Manager Main Menu. The Operational Enquiries menu is displayed.

```
MM000                               Machine Manager                               System: STUDENT

Main Menu
1. Auto Day-Start Jobs
2. Auto Day-End Jobs
3. Job Schedules
4. End Day Times
5. Power Down Times
6. Job Schedule Times
7. Group Schedules
8. Protected Queues
9. Operational Enquiries
10. Exit

Operational Enquiries
1. Display Management Log
2. Display Run Jobs History Log
3. Job Schedule by Date
4. Main Menu

Selection or command
===>

F3=Exit      F4=Prompt    F6=Messages  F9=Retrieve
F10=Command Entry  F12=Previous F14=View Jobs F24=More Keys

M0 a                                     19/007
```

Display Management Log

Use this activity to enquire on the [Machine Manager](#) Log. Job types include all initialisations and completions of the day-start, day-end and power down procedures. The more important intermediate steps are also recorded.

A job to clear down the log at regular intervals can be set up using the standard Clear [Machine Manager](#) Log as part of your auto day-end jobs (refer to the Manage Auto Day-End Jobs section of this product guide). This enables you to keep a specific number of days' history, rather than clearing the entire log.

Display Machine Management Log Window



To display this window, select the **Display Management Log** activity from Operational Enquiries.

Select an item to enquire on a job on the [Machine Manager](#) log.

MM211 **Machine Manager** System: STUDB30A

Display Machine Management Log

1>Select Entry

0	Entry type	Date	Time	Job	User
-	P / J Power down system submit	24/06/91	20:07:36	JOBSCH	QPGMR
-	E / E Auto day-end jobs complet	24/06/91	20:06:21	JOBSCH	QPGMR
-	E / S Auto day-end jobs started	24/06/91	20:06:08	JOBSCH	QPGMR
-	I / X End-day initiator warning	24/06/91	20:04:03	JOBSCH	QPGMR
-	I / A End-day initiator activat	24/06/91	20:03:46	JOBSCH	QPGMR
-	I / J End-day initiator submit	24/06/91	19:17:46	JOBSCH	QPGMR
-	J / P Job Scheduler processing.	24/06/91	19:16:22	JOBSCH	QPGMR
-	J / P Job schedule job processi	24/06/91	19:16:22	JOBSCH	QPGMR
-	S / E Auto day-start jobs compl	24/06/91	19:16:15	QSTRUPJD	QPGMR
-	J / J Job Scheduler submitted.	24/06/91	19:16:07	QSTRUPJD	QPGMR
-	J / J Job schedule job submitte	24/06/91	19:16:07	QSTRUPJD	QPGMR
-	S / S Auto day-start jobs start	24/06/91	19:15:13	QSTRUPJD	QPGMR
-	I / J End-day initiator submit	24/06/91	11:28:54	SYSMGR01	HOLDHAGP
-	I / X End-day initiator warning	21/06/91	20:01:56	JOBSCH	QPGMR
-	I / A End-day initiator activat	21/06/91	20:01:34	JOBSCH	QPGMR
-	I / J End-day initiator submit	21/06/91	19:05:38	JOBSCH	QPGMR
-	J / P Job Scheduler processing.	21/06/91	19:04:17	JOBSCH	QPGMR

F3=Exit F5=Refresh F12=Previous F17=Subset More..

Fields

Option (O)

Enter **1** against an entry to enquire on a job.

Entry Type

The first character indicates the job type:

E - Auto day-end job

I - Initiator

J - Job scheduler

P - Power down

S - Auto day-start job

The second character indicates the status of the function:

A - Active

E - Completed

J - Submitted

S - Started

W - Waiting

X - Warning

A description of the job is also given.

Date/Time

This is the date and time at which the event occurred.

Job

This is the name of the job that processed the event.

User

This is the user profile of the user of the job that processed the event.

Functions

F17=Subset

Use this to limit the display to selected job entry types.

Choose a subset of the job type entries to display all the jobs that satisfy the selection criteria.



Select **F3=Exit** to leave the enquiry, or press **Enter** to display details of the selected log entry.

Display Machine Management Log Details Window

- To display this window, enter **1** next to the required job on the Display Machine Management Log window, and press **Enter**.

This window displays specific details of the selected job.

```
MM211                               Machine Manager                               System: STUDB30A
Display Machine Management Log

Entry Type . . . . . P
Sub-Type . . . . . J Power down system submitted.

Date . . . . . 24/06/91
Time . . . . . 20:07:36
Job Number . . . . . 021508
Job Name . . . . . JOBSCH
User . . . . . QPGMR
Data . . . . . Submitted Job 021539/QPGMR/PWRDWN SYS

F3=Exit  F12=Previous
```

- Select **F12=Previous** to return to the previous window or **F3=Exit** to leave the activity.

Display Machine Management Log Subset Window



To display this pop-up, select **F17=Subset** on the Display Machine Management Log window.

You can select on two levels of log entries - major and minor types - by which to enquire on the log.

```
MM211 Machine Manager System: STUDENT
Display Machine Management Log
Subset log entry types

Major type _      Blank = All types
                  S = Auto-day start jobs
                  I = End day initiator jobs
                  E = Auto-day end jobs
                  P = Power down jobs

Minor type _      Valid values depend on major type

-

F3=Exit F4=Browse F12=Previous
```

ME a 21/044

Fields

Major Type

Select from one of the displayed type of log entries. The log enquiry window is redisplayed with only the selected types.

Minor Type

You can use the prompt to select one of the minor log entry types. The first character here is the major type. Depending on the major type chosen, only some of the minor types can be selected.

For example, with minor type ES, **E** is the major code for auto-day end jobs and **S** is the minor code for job started.



Press **Enter** to display your selected types.

Display Run Jobs History Log

Use this activity to look at jobs previously processed by [Machine Manager](#).

Display Job History Log Selection Window



To display this window, select the **Display Run Jobs History Log** activity from Operational Enquiries.

Select a job to drill down to a view of either history details, run details or the source details of the selected job.

You can also choose to view from a particular date and time.

```

Machine Manager
System: STULPR1D

Display Job History Log
Type in Options, and press ENTER.
1=Select, 5=Run Job History, 9=Source Job History
Position List to Date 310103
Position List to Time 230314

Opt Date      Time      Description                                     Status
- - - - -
31/01/03 23:03:14 Housekeeping: Save Libraries                   RI
31/01/03 23:07:32 Reset Aurora authorities - public   RS
31/01/03 23:07:34 Reset Aurora authorities - public   RI
31/01/03 23:08:26 Reset Aurora authorities - public   RS
31/01/03 23:08:28 Reset Aurora authorities - public   RI
31/01/03 23:09:10 Reset Aurora authorities - public   RS
31/01/03 23:09:11 Reset Aurora authorities - public   RI
31/01/03 23:09:55 Reset Aurora authorities - public   RS
31/01/03 23:09:56 Reset Aurora authorities - public   RI
31/01/03 23:10:22 Reset Aurora authorities - public   RS
1/02/03      12 Housekeeping: Save Libraries                   RS
1/02/03 6:00:35 Release Job Queue: PWRDWN SYS         ueue  SS
1/02/03 6:00:36 Release Job Queue: PWRDWN SYS         ueue  RI
1/02/03 6:00:38 Release Job Queue: PWRDWN SYS         ueue  RS

F3=Exit F14=Position
More...
  
```

Fields

Option (Opt)

Enter one of the following:

- 1** - To display the details of the log entry
- 5** - To display all of the entries from the selected job showing the time and task status at each stage of the job. The assigned run number is given.
- 9** - To display all of the entries from all of the run jobs that were derived from the one selected source job

Position List to Date

Enter a date. When you select **F14=Position** the enquiry listing is repositioned from the first instance of the date entered.

Position List to Time

Enter the time in hours, minutes and seconds, for example, 232959. If no date is entered, the date from the first line currently on window is used.

When you select **F14=Position** the enquiry listing is repositioned from the first instance of the date and time selected.

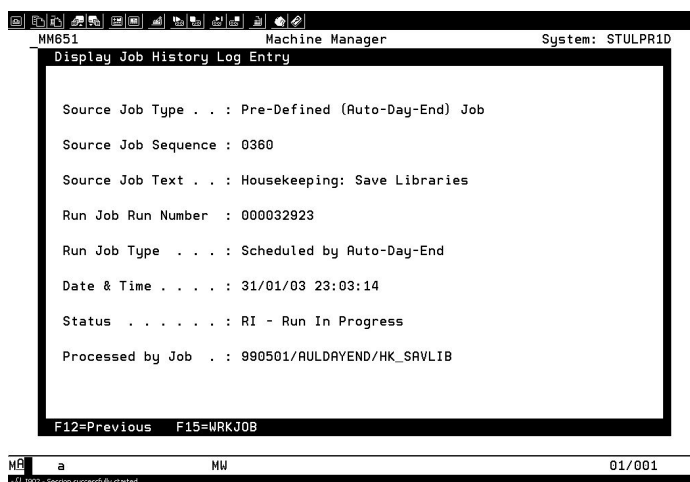
Functions

F14=Position

Use this to reposition the display by entering a date and/or time and selecting **F14**.

F15=WRKJOB

This uses the IBM command WRKJOB (Work with Job) to display information about the job from its last execution. This displays on the Details window when you have selected a job with a **1**.



```
MM651 Machine Manager System: STULPR1D
Display Job History Log Entry

Source Job Type . . : Pre-Defined (Auto-Day-End) Job
Source Job Sequence : 0360
Source Job Text . . : Housekeeping: Save Libraries
Run Job Run Number : 000032923
Run Job Type . . . : Scheduled by Auto-Day-End
Date & Time . . . . : 31/01/03 23:03:14
Status . . . . . : RI - Run In Progress
Processed by Job . . : 990501/AULDAYEND/HK_SAVLIB

F12=Previous F15=WRKJOB

MB a MW 01/001
IBM - Screen successfully started
```

Note: If the job has completed and is no longer in the system, there will be no details to display.

Display Run Job History Pop-up



To display this pop-up, enter **5** against a job on the Display Job History Log window.

You can enquire on the time and task status of each stage of the selected job. The assigned run number is given.

```

MM650                               Machine Manager                               System: STUDENT
Display Job History Log
Type in Options, and press ENTER.
1=Select, 5=Run Job History, 9=Source Job History
Position List to Date
Opt Date      Time      Description
- 23/05/99    2:44:25 Housekeeping:
- 23/05/99    6:06:17 Release Job Qu
- 23/05/99    6:06:20 Release Job Qu
5 23/05/99    6:06:22 Release Job Qu
- 23/05/99    6:33:46 Hold Job Queue
- 23/05/99    6:33:49 Start Subsystem
- 23/05/99    6:33:51 Start Subsystem
- 23/05/99    6:33:53 Start Subsystem
- 23/05/99    6:33:54 Start Subsystem
- 23/05/99    6:33:56 Start Subsystem: QSERVER
- 23/05/99    6:33:57 Start TCP/IP
- 23/05/99    6:33:59 Start Host Server: *ALL
- 23/05/99    6:34:00 Schedule End Day Initiation
- 23/05/99    6:34:02 Delete ADS Overrides
F3=Exit
More...

Display Run Job History
Release Job Queue: PWRDWN SYS
Run Number . . . . : 000000131
Type in Options, and press ENTER.
1=Select
Opt Date      Time      Status
- 23/05/99    6:06:17  SS
- 23/05/99    6:06:20  RI
- 23/05/99    6:06:22  RS
F12=Previous
  
```

Fields

Option (Opt)

Enter **1** to display the details of the log entry.

Date

This is the date of the latest job run.

Time

This is the time of the latest job run.

Status

The task status of the latest job run is displayed.



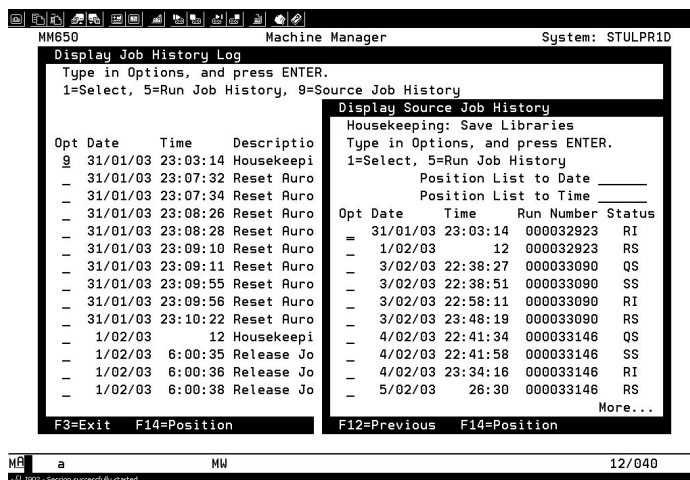
Select **F12=Previous** to return to the main enquiry window.

Display Source Job History Pop-up



To display this pop-up, enter **9** against a job on the Display Job History Log window.

The source job history for the selected job is listed so that you can trace each stage of the job as it proceeded. You can select a run item in this pop-up to drill down to the source job type, job sequence number and text.



Fields

Option (Opt)

Enter one of the following:

1 - To display the details of the log entry

5 - A pop-up displays the date, time and task status of each stage of the job, for the selected run number.

Position List to Date

Enter a date. When you select **F14=Position** the enquiry listing is repositioned from the first instance of the date entered.

Position List to Time

Enter the time in hours, minutes and seconds, for example, 232959. If no date is entered, the date from the first line currently on the window is used. When you select **F14=Position** the enquiry listing is repositioned from the first instance of the date and time selected.

Functions

F14=Position

Use this to re-position the display by entering a date and/or time and selecting **F14**.



Return to the previous window by selecting **F12=Previous**.

Job Schedule by Date

Use this activity to enquire on all jobs scheduled for a specific date. This can be past, present or future.

Job Schedule Enquiry by Date Selection Window

- ➔ To display this window, select the **Job Schedule by Date** activity from Operational Enquiries.

Use this enquiry to look at all of the jobs that are scheduled for a specific date. You can specify both past and future dates.



Fields

Schedule Date

Enter the date for which you want to see schedules. The default is today's date.

Job Type

Enter one of the following:

- 1 - View day-start jobs.
- 2 - View day-end jobs.
- 3 - View both day-start and day-end jobs.

- ➔ When you have made your selection, press **Enter**.

Job Schedule Enquiry by Date Window

- ➔ To display this window, enter a schedule date in the Job Schedule Enquiry by Date Selection window.

This window provides a summary of the jobs scheduled on the date selected. Enter **1** in the first column to view more specific details of that job.

```
MM241                               Machine Manager                               System: STUDB30A
Job Schedule Enquiry by Date
Schedule date . . . . . 27/04/94
Job type . . . . . 3 (1=Start, 2=End, 3=Both)
1=Select
0 Seqn Job name Time Description
- 5 99:99:99 Change QSYSOPR.
- 7 99:99:99 Clear IRG error log file
- 10 SIZCURPTF 99:99:99 Size Cumulative PTFs
- 11 PRWEEKLYHK 99:99:99 Problem Recording Weekly Housekeeping
- 12 PRDAILYHK 99:99:99 Problem Recording Daily Housekeeping
- 13 99:99:99 Start QINTER.
I 15 99:99:99 Hold OVERNIGHT job queue
- 16 99:99:99 Hold PWRDMNSYS job queue
- 17 99:99:99 Change QBATCH to *NOMAX
- 18 99:99:99 Increase *INTERACT pool
- 20 99:99:99 Start QBATCH.
- 30 99:99:99 Start QRCMR.
- 35 99:99:99 Start QSYSOPR
More..
F3=Exit F12=Previous
```



Select **F12=Previous** to return to the selection window or **F3=Exit** to leave the activity.

Glossary

AM

Acronym for Application Manager

APPC Network

IBM acronym for Advanced Peer-to-Peer Communications

Application

In System Manager this refers to a group of related modules. For example the Financials application includes modules for General Ledger, Accounts Receivable and Cash Management. Third party applications can refer to any software package.

Application Manager

This is designed for the easy management of applications. It sits between the iSeries/400 system and the applications it manages, providing a route into them for the user. It can also be used to control third party functional areas and to design bespoke menus.

APPN Network

IBM term for Advanced Peer-to-Peer Networking

Drop-through Rules

The drop-through rules govern which versions of menus, tasks and library lists. Application Manager will try to use for a given request according to the environment (whether default or non-default). See [the section Environment Usage for further details](#). See also the [Display Menu/Task Process \(Step-by-Step\) Enquiry, in particular the Thought Process Window, as these enquiry screens demonstrate the drop-through rules](#).

EDI

Acronym for Electronic Data Interchange

Electronic Data Interchange

This is a method of transmitting business information over a network, between trading partners. The partners must agree to follow approved national or industry standards for translating and exchanging information.

E/D Processor

Escalation and Delegation of Schedule Rules as configured in GEAC Active Modeler

HK

Acronym for House Keeping

House Keeping

This is designed to manage libraries by recording details such as frequency of use, sizes, owners and dates last changed or saved. It can also perform unattended saves as an overnight job.

IPG

Acronym for Interactive Program Generator

This is a programming language used to write interactive programs which interface with RPG programs.

IPL

Acronym for Initial Program Load

This is the iSeries 400 equivalent of boot up on a PC.

Job Status

The job statuses in Machine Manager are:

A - Active

E - Completed

J - Submitted

S - Started

W - Waiting

X - Warning

Refer also to Task Status.

Job Types

These are often reported as a one-character code:

E - Auto Day-End Job

I - Initiator

J - Job Scheduler

P - Power Down

S - Auto Day-Start Job

Where the job type has two characters, the second character indicates the current status of the job.

LDA

Acronym for Local Data Area

Application Manager uses the Local Data Area (LDA) to pass information between programs. The first 256 characters of the 1024 character LDA are fixed and pre-defined. The remainder of the Local Data Area is specifically for application usage. You must make sure that your applications never change the first 256 characters of the Local Data Area.

Note: The exception to this rule is the return code L#RTCD positions 118 to 119 of the Local Data Area. If you are changing the return code then you save the LDA before you execute your routine and restore it back when your routine has completed.

Log Entry Types

Major Log Types are:

Blank - All Types

S - Auto-Day Start Jobs

I - End-Day Initiator Jobs

E - Auto-Day End Jobs

P - Power Down Jobs

Minor Log Types are:

EE - Auto Day-End Jobs Completed

ES - Auto Day-End Jobs Started

EZ - Authority Violation

IA - Day-End Initiator Activated

IC - Day-End Changed

IJ - Day-End Initiator Submitted

IW - Day-End Initiator Waiting

IX - Day-End Initiator Warning

JJ - Job Scheduler Submitted

JP - Job Scheduler Processing

PE - Power Down System Ended

PJ - Power Down System Submitted

PS - Power Down System Started

PW - Power Down Wait

PX - Power Down Time Limit Passed

SE - Auto Day-Start Jobs Completed

SS - Auto Day-Start Jobs Started

SZ - Authority Violation

Machine Manager

This is designed to provide automatic management of daytime and night-time operating environments, where daytime processing is mainly interactive and night-time processing is mainly batch. The interface between the two operating environments is controlled through scheduled day-start and day-end jobs.

MM

Acronym for Machine Manager

Module

This is the name given to the constituent parts of an application. For example, General Ledger, Accounts Payable and Accounts Receivable are all modules of the Financials application.

Network Manager

This is designed as a user-friendly interface for configuring and maintaining the network. It uses SNADS (System Network Architecture Distribution Services), the IBM SNA distribution service, to distribute objects and messages between systems on the network. These systems can be linked directly or indirectly.

QSECOFR

This is the sign-on for the security officer. It gives you super-user status when entering commands on the command line in System Manager .

Role

A role represents a job title to which certain tasks are assigned. For example, a Sales Order Clerk could be assigned the tasks of Sales Order Entry and Customer Order Enquiry.

SAA Standards

IBM acronym for System Application Architecture Standards

SNADS

IBM acronym for System Network Architecture Distribution Services

Source

The application source codes

For example, use U for your own applications in Administration Management.

Task Status

The completion status of the task last time it was executed

RS - Ran Successfully

RN - Never Run

RF - Run Failed

SS - Submitted Successfully