Robot/SCHEDULE® 12.0

Getting Started
A Tutorial
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Getting Robot/SCHEDULE Started at Your Site

This section describes the minimum steps required to get Robot/SCHEDULE up and running on an IBM® System i™ (System i5™ or iSeries™) at your site.

Install Robot/SCHEDULE as directed by the installation instructions that came with the package. Display the Robot /SCHEDULE Main Menu by entering the following commands:

```
ADDLIBLE ROBOTLIB RBM
```

Check that the STANDARD environment is appropriate for your site. To do so, select option 2 on the Main Menu to display the Scheduling Objects Menu.

From the Scheduling Objects Menu, select option 4 to display the Maintain Job Environment Objects panel.
Getting Robot/SCHEDULE Started at Your Site

Enter a 2 in the Opt field next to the STANDARD environment that ships with Robot/SCHEDULE to display the Environment Options panel.

On the Environment Options panel, review the default values and make any necessary changes. The default values are described in detail in the Scheduling Objects Menu section of the Robot/SCHEDULE User Guide. Press function key 12 to save your changes and return to the Scheduling Objects Menu. Then, press function key 3 to return to the Robot/SCHEDULE Main Menu.

On the Robot/SCHEDULE Main Menu, select option 4 to display the System Setup Menu.
Getting Robot/SCHEDULE Started at Your Site

You can now begin creating Robot/SCHEDULE jobs, as outlined on the following pages. Before you can run jobs, you must start the Robot/SCHEDULE monitors.

Select option 3 on the Main Menu to display the Control Menu. Select option 1 on the Control Menu to start the monitors.

On the System Setup Menu, select option 1 to see the General System Defaults panel.

Review these default values and make any necessary changes. The default values are described in the detail in the System Setup Menu section of the Robot/SCHEDULE User Guide. Press function key 12 to save your changes and return to the System Setup Menu. Then press function key 3 to return to the Robot/SCHEDULE Main Menu.

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Quick Tour 1: Creating a Robot/SCHEDULE Job that Calls a Program

This quick tour outlines how you schedule a Robot/SCHEDULE job to call a program that needs no parameters. For more information, see the Initial Job Setup section in the Robot/SCHEDULE User Guide.

On the Robot/SCHEDULE Main Menu, select option 1 to see the Job Schedule List.

On the Job Schedule List, press function key 6 to create a new job. Robot/SCHEDULE displays the Initial Job Setup panel.

On the Initial Job Setup panel, enter a P in the Job Type field because this is a program-type job. (You also can press function key 4 to select from a list of job types.) Enter the name of the program as the job name. Then, enter the run times and select the days the job should run.

Press function key 12 to save your entries and return to the Job Schedule List panel. The new job appears in the Job Schedule List, ready to run as scheduled.
Quick Tour 2: Creating Robot/SCHEDULE Jobs Using the Learn Commands

This quick tour describes how to create Robot/SCHEDULE job records using the Robot/SCHEDULE learn commands. For more information, see the Robot/SCHEDULE Learn Commands section in the Robot/SCHEDULE User Guide.

Sign on with a user profile that can access all menus needed to submit the jobs you want to capture.

From any iSeries command line, enter the Robot/SCHEDULE start learn command and press function key 4 to display the command prompt panel:

```
ROBOTLIB/RBTSTRRLRN
```

On the Start ROBOT Learn Session panel, specify whether you want to submit the job immediately after creating it or to schedule it using Robot/SCHEDULE.

Press Enter to return to the iSeries command line. Select menu options as you normally do to submit jobs.

For each job you submit, Robot/SCHEDULE captures the SBMJOB command, the LDA, and the library list. It stores the information in a new Robot/SCHEDULE job record.

You also can capture jobs by entering SBMJOB commands directly. When you press Enter, Robot/SCHEDULE captures the job parameters and creates a new job record.

If the job name on the SBMJOB command is already the name of a Robot/SCHEDULE job, a window displays asking you to enter a new name for the job. Type a new name and press Enter.
Quick Tour 2: Creating Robot/SCHEDULE Jobs Using the Learn Commands

When you are done capturing jobs, enter the Robot/SCHEDULE End Learn command:

```
RBTENDLRN
```

The jobs you captured are now part of the Robot/SCHEDULE job schedule. Robot/SCHEDULE will run the jobs at the times you scheduled them to run.

- If you specified *YES in the Schedule Job field of the RBTSTRLRN command, Robot/SCHEDULE displays the Initial Job Setup panel when you submit the job. Leave C in the Job Type field. Enter the job description and any notes. Then, enter the run times for the job and select the days of the week when the job should run.

The job is on hold when it is created. Enter an R in the Schedule Override Code field to remove the hold so the job can run. Press function key 12 to save the job and exit.

- If you specified *NO in the Schedule Job field, the Initial Job Setup panel does not display automatically. You can display it through Robot/SCHEDULE when you want to schedule the job.

When you are done capturing jobs, enter the Robot/SCHEDULE End Learn command:

```
RBTENDLRN
```

The jobs you captured are now part of the Robot/SCHEDULE job schedule. Robot/SCHEDULE will run the jobs at the times you scheduled them to run.
Quick Tour 3: Creating a Robot/SCHEDULE Job that Executes Commands

This quick tour describes how to schedule a Robot/SCHEDULE job that executes one or more commands. For more information, see the Command Entry section in the Robot/SCHEDULE User Guide.

On the Robot/SCHEDULE Main Menu, select option 1 to display the Job Schedule List.

On the Job Schedule List, press function key 6 to create a new job record.

On the Initial Job Setup panel, enter a C for job type Command. Then, fill in the rest of the job details and the job schedule.

Press Enter to save the job. Then, press function key 10 to display the ROBOT Command Entry panel.

On the ROBOT Command Entry panel, fill in the commands you want the job to execute.

If a command is longer than the line provided on this panel, enter a 1 in the Opt column to display the Extended Command Display panel. You can enter a command up to 3,000 characters long on that panel.
Quick Tour 3: Creating a Robot/SCHEDULE Job that Executes Commands

After you finish entering the commands, you might want to check the job control options for the job. Press function key 23 to display the options menu and select option 5.

On the Control Options panel, review and change the control options for the job, as needed. The initial control options on the panel come from the STANDARD environment that you can access and edit from the Scheduling Objects Menu. In any field, *RBTDFT means that the value for that field is obtained from the specified environment (STANDARD). For more information on the options, see the Control Options section in the Robot/SCHEDULE User Guide.

Press function key 10 to display the Job Monitor Entry panel.

Use the Job Monitor Entry panel to specify if you want to monitor the job for certain events. Select the events you want to monitor for (you can select one or all) and specify the action Robot/SCHEDULE should take. See the Job Monitors section in the Robot/SCHEDULE User Guide for more information.

Press function key 12 to return to the Job Schedule List. From the Job Schedule List, you can see the jobs you have entered and continue entering jobs.
Quick Tour 4: Creating a Robot/SCHEDULE Job that Controls a Group of Jobs

This quick tour describes how to set up and schedule a Robot/SCHEDULE job that controls a group of jobs. The Group Control job contains the schedule and control options used for all jobs in the group. The most efficient way to set up groups is to have all the jobs that you want to be members of the group defined to Robot/SCHEDULE before you set up the group control job. For more information, see the Group Control section in the Robot/SCHEDULE User Guide.

On the Robot/SCHEDULE Main Menu, select option 1 to see the Job Schedule List. Press function key 6 to display the Initial Job Setup panel.

On the Initial Job Setup panel, enter a G in the Job Type field because this is a Group Control job. Then, fill in the rest of the job details and the run time. Because this group of jobs runs monthly, we will schedule it later on the Advanced Scheduling panel. Enter a group name and press function key 10 to display the Group Control panel.

On the Group Control panel, select control options for the entire group.

Press Enter to save. Then, press function key 10 to display the Group Members panel.
Quick Tour 4: Creating a Robot/SCHEDULE Job that Controls a Group of Jobs

The next step is to add members to the group. From the Group Members panel, press function key 6 to display the ROBOT Job Finder.

Use the ROBOT Job Finder to locate the jobs that should be members of this group. Enter a 1 next to each job you want to include. Press Enter. The jobs display on the Group Members panel.

Verify that these are the correct jobs. To change the order in which they run, change their sequence numbers and press Enter. Then, press function key 10 to display the Advanced Scheduling panel.
Quick Tour 4: Creating a Robot/SCHEDULE Job that Controls a Group of Jobs

On the Advanced Scheduling panel, schedule the group of jobs for the second day of the month, even if it is a nonworking day. Enter a 1 by DAYNO, 2 for the day of the month, and a 1 by Calendar. (The default includes nonworking days.)

Press Enter to save your changes and then press function key 9 to see the Search Options window and select Group with members.

On the Job Schedule List, the group control job appears in the list.

The job list shows the group control job with the group member jobs listed beneath it.
Getting Started

Quick Tour 5: Creating a Robot/SCHEDULE Job that Runs on a PC

This quick tour describes how to setup a Robot/SCHEDULE job that sends a task to a PC to be executed.

Note: You must have Robot/CLIENT, our server operations event manager, to send a task to a PC.

On the Initial Job Setup panel, create a Command-type job by entering C in the Job Type field. Enter the job name, description, and schedule.

Press function key 10 to display the ROBOT Command Entry panel.

Enter the Robot/CLIENT command RCLEXEC and press function key 4 to display the command prompt. Enter the program to run using a fully-qualified path name, executable file name, extension (.exe, .bat, .com, .ptf), and any necessary parameters.
Review the Basics

- Scheduling Starts from the Job Schedule List
- Initial Job Setup Required for Every Job
Review the Basics

The examples in this manual assume that you know how to display the Robot/SCHEDULE Job Schedule List, the Initial Job Setup panel for a new job, and the job options window. Use the following to review how to do this.

1. Add the Robot/SCHEDULE library to your library list, if it is not already there:
   ADDLIB ROBOTLIB

2. Enter the command RBM to display the Robot/SCHEDULE Main Menu.

   Select one of the following:
   1. User tasks
   2. Office tasks
   3. General system tasks
   4. Files, libraries, and folders
   5. Programming
   6. Communications
   7. Define or change the system
   8. Problem handling
   9. Display a menu
   10. Information Assistant options
   11. Client Access/400 tasks

   F3=Exit F4=Prompt F5=Retrieve F12=Cancel F13=Information Assistant
   F23=Set initial menu

   Selection or command
   --- > rbm

   F3=Exit F21=Command Line

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Review the Basics

Scheduling Starts From the Job Schedule List

3. To display the Job Schedule List, select menu option 1 from the Robot/SCHEDULE Main Menu.

4. The Job Schedule List shows the job records defined to Robot/SCHEDULE. To find a specific job record, press function key 9 to display the Search Options panel. Select the Job Name option. You can find a job by entering its name in the Start job list at: Job name field.
Review the Basics

Scheduling Starts From the Job Schedule List

5. You select the job record you want to look at by entering a code by the job in its OPT field. Press function key 4 in the OPT field to display the options for that job. Select an option by entering a 1 next to the option. Press function key 3 to close the window.

6. Press function key 6 to define a new Robot/SCHEDULE job.
Initial Job Setup Required for Every Job

7. To see the options available from the Initial Job Setup panel, enter a job type and job name, and press function key 23.

8. Look at the options in the window; page down to see additional options. Options 1 through 10 are for job entry. For some jobs, only the Initial Job Setup is required. For other jobs, you may need to fill in several additional panels. The examples in this manual can help you decide which panels a given job needs.
Notes:
When Should the Job Run?

- Once a Week
- Every Nonworkday
- On the Last Workday of the Month
- Every 15 Minutes for 4 Hours Each Day
- Whenever Job x Fails
- Every Day That Job y Completes Normally
- If Event x or y Happens on a Nonworking Day
Once a Week

When Should the Job Run?

The files on your system need to be reorganized every week, but the reorganization must be done while no users are on the system. So you decide to run the program every Saturday at 6 p.m. The program does not require parameter values so it can be run using job type Program.

Scheduling Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Type P in the job type field to create a Program-type job.
   - Type the program name (PGM232) in the Job Name field.
   - Type the description of the program (Reorganize files) and notes, if any.
   - Type the run time for the job: 1800 (6 p.m. on a 24-hour clock).
   - Type Y before Saturday to run the job every Saturday.
   - Press function key 12 to save the panel entries and return to the Job Schedule List.
**When Should the Job Run?**

Your sales staff has a dial-up line to your system for use on nonworking days. For security reasons, you run a job to vary off the line every non-workday at 5 p.m.

**Scheduling Steps**

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Enter the job type, job name, description, and notes.
   - Type the run time for the job: **1700** (5 p.m. on a 24-hour clock).
   - Press Enter to save.

3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.

4. On the panel:
   - Type 1 before the INDAY option.
   - Type the start date (**103000**).
   - Type 1 as the day interval.
   - Type 1 before Non-Working.
   - Press Enter to save.

5. Display the Exception Scheduling panel. Press function key 23 and select option 10.
6. On the panel:
   - Verify that the **Allow to Run on Non-Working day** option is **Y**.
   - Press **function key 12** to save and return to the Job Schedule List.

---

**Exception Scheduling**

**MISCELLANEOUS SCHEDULING EXCEPTIONS**

Run on non-working day **Y** (Y=Yes, N=No, F=Run after, B=Run before)

Start executing job only between times ____ and ____

Make this a Submit-Delay model job _ (F4=Prompt for Compare Options)

**EXCEPTION SCHEDULING OBJECTS**

Don’t run on dates listed in Date Object _________ (F4=Prompt)

Execute schedule instructions in OPAL Object _________ (F4=Prompt)

F3=Exit  F4=Prompt  F12=Next Option
F12=Previous  F21=Command Line  F23=More Options
When Should the Job Run?

You run the monthly labor report job at 7 p.m. on the last workday of each calendar month.

Scheduling Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Enter the job type, job name, description, and notes.
   - Type the run time for the job: 1900 (7 p.m. on a 24-hour clock).
   - Press Enter to save.

3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.

4. On the panel:
   - Type 1 before the DAYNO option.
   - For the last day of the month, type -1 as the day number.
   - To use calendar month-ends, type 1 before Calendar.
   - Press Enter to save.

5. Display the Exception Scheduling panel. Press function key 23 and select option 10.
6. On the panel:
   - Type B for the **Allow to Run on Non-Working day** option.
     If the last day of the month is a nonworkday, the job will run on the workday before the nonwork day.
   - Press Enter and then **function key 3** to save and return to the Job Schedule List.

---

**Exception Scheduling**

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Monthly labor report</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBR407CM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Miscellaneous Scheduling Exceptions**

- Run on non-working day D (Y=Yes, N=No, F=Run after, B=Run before)
- Start executing job only between times ____ and ____
- Make this a Submit-Delay model job _ (F4=Prompt for Compare Options)

**Exception Scheduling Objects**

- Don't run on dates listed in Date Object __________ (F4=Prompt)
- Execute schedule instructions in OPAL Object __________ (F4=Prompt)

- F3=Exit
- F4=Prompt
- F10=Next Option
- F12=Previous
- F21=Command Line
- F23=More Options
When Should the Job Run?

You want to ensure that the lines stay up every night while transmissions are received from the branch offices. So you run a job to check the lines every 15 minutes from 8 p.m. to midnight.

Scheduling Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Enter the job type, enter the job name, and its description and notes.
   - Do not enter run times for the job.
   - Press Enter to save.

3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.

4. On the panel, select the EVERY option and enter the minute interval as 15.

5. Display the Exception Scheduling panel. Press function key 23 and select option 10.
Scheduling Steps (Continued)

6. On the panel:
   - Check that the Allow to Run on non-working day option is Y.
   - For the Start Executing job time range, enter 2000 and 2359 (8 p.m. to 11:59 p.m.).
   - Press Enter and then function key 3 to save and return to the Job Schedule List.
When Should the Job Run?

You have written an error recovery routine to provide the current status if job EMP407CMD fails. You schedule the error recovery routine as a reactive job that runs only if EMP407CMD fails.

Scheduling Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Enter the job type, enter the job name, and its description and notes.
   - Do not enter a run time—the job will run immediately when its condition is met.
   - Press Enter to save.

3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.

4. On the panel:
   - Type 1 before the REACT option.
   - Press Enter to save.

5. Display the Reactive Jobs panel. Press function key 23 and select option 7.

6. On the panel:
   - Press function key 6 to display the ROBOT Job Finder.
   - Find job EMP407CMD in the list. Type 1 in the Opt field by the job and press Enter.
   - Type a T over the C in the React To Sts column.
   - Press function key 12 to save and return to the Job Schedule List.
Every Day That Job y Completes Normally

When Should the Job Run?

The sales manager usually submits job SALUPD sometime during the day. If the job completes successfully that day, a report job should run at 6 p.m.

Note: If the Robot/SCHEDULE SBMJOB command is not installed on your system, you must add a SNDRBTDATA command to the SALUPD job (see the next example).

Scheduling Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.
2. On the panel:
   - Enter the job type, job name, description, and notes.
   - Enter the run time as 1800 (6 p.m.).
   - Type Y before every day of the week.
   - Press Enter to save.
3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.
4. On the panel:
   - Type 1 before the REACT option.
   - Press Enter to save.
5. Display the Exception Scheduling panel. Press function key 23 and select option 10.
6. On the panel, check that the Allow to Run on non-working day option is Y.
7. Display the Reactive Job Setup panel. Press function key 23 and select option 7.
8. On the panel:
   - Press function key 14 to display the User Job window.
   - Type the job name (SALUPD) and description.
   - Check that the React On Status value is C.
   - Press Enter to add the event to the list.
   - Press function key 12 to save and return to the Job Schedule List.
When Should the Job Run?

Your field representatives can dial in to the DALLAS or AUSTIN system and enter support requests. On weekends and holidays, a request must trigger a job on the host system that notifies you of the request. To trigger the job on the host system, the request on the DALLAS or AUSTIN system executes a SNDRBTDATA command to notify Robot/SCHEDULE of the request.

Scheduling Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Enter the job type, enter the job name, and its description and notes.
   - Do not enter a run time. The job will run immediately when its conditions are met.
   - Press Enter to save.

3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.

4. On the panel:
   - Type 1 before the REACT option.
   - Press Enter to save.

5. Display the Exception Scheduling panel. Press function key 23 and select option 10.

---

**Advanced Scheduling**

> **Choose one to schedule other than by day of the week**

- (INDBY) Start running on this date _____ and every ___ days thereafter
  
  Choose type of day:  _ Work _ Calendar _ Non-Working

- (EVERY) Run every ___ minutes

- (DATE) Run on the dates listed in Date Object _________ (F4=Prompt)

1. (REACT) Run when prerequisites are satisfied (see reactive job list)

- (ORSNO) Run on these day numbers ___ ___ ___ of the month
  
  Choose type of day:  _ Work _ Fiscal _ Calendar _ Non-Working

---

Job is a reactive job (prerequisites on Reactive Jobs panel)
6. On the panel, check that the **Allow to Run on non-working day** option is **Y**.

7. Display the Reactive Jobs panel. Press **function key 23** and select **option 7**.

8. On the panel:
   - Press **function key 14** to display the **User Job** window.
   - Type the job name (**SUPPORTREQ**) and description.
   - Check that the **React On Status** value is **C**.
   - Press **function key 4** in the **System** field and select the **DALLAS** system.
   - Press Enter to update the prerequisite list.

   - Repeat the user job entry for job **SUPPORTREQ** from the **AUSTIN** system.

   - In the **And/Or** field before the second job, type **OR** over the word **AND**.
   - Press **function key 12** to save and return to the Job Schedule List.

```
REOJOBS

F61297  Reactive Jobs  13:59:57  TRAINER

Job Name: REQNOTIFY  Description: Non-working day notify

Options
1-Insert Status  2-Prerequisite Cross-Reference  3-More Options
React
And/Or  Job Name  Class  Description  Seq  Sts  Keep  Instance  Sts
-----  --------  -----  ----------  ----  ---  ----  --------  ---
-   SUPPORTREQ  User  Support Request  10  C
    System: AUSTIN  Status Date:   and Time:
-   OR  SUPPORTREQ  User  Support Request  20  C
    System: DALLAS  Status Date:   and Time:
```

Type **OR**.
Add Command to Trigger the Reactive Job—SNDRBTDTA Command

To trigger the reactive job on the host system, add the following command to the request job executed on the DALLAS system.

SNDRBTDTA PRQJOB(SUPPORTREQ) STATUS(C) SYSTEM(DALLAS)

Add the following command to the request job executed on the AUSTIN system.

SNDRBTDTA PRQJOB(SUPPORTREQ) STATUS(C) SYSTEM(AUSTIN)

Must be the same job name, status, and system name as entered in the prerequisite list.
What Should the Job Do?

- Add a Library to a Library List to Run a Program
- Run S/36 Procedures
- Execute a Long Command that Uses Robot/SCHEDULE Command Variables
- Run a Sequence of Jobs
What Should the Job Do?

Run the program RBCLR, which needs no parameters, every Monday at 12:30 a.m. The program is in library MYLIB, which needs to be added to a Robot/SCHEDULE library list.

Steps to Create the Library List

1. Display the Library List Selection panel. From the Robot Main Menu, select option 2 to display the Scheduling Objects Menu, then select option 3 from the Scheduling Objects Menu.

2. On the panel:
   - Type MYLIBLIST on a blank line in the List Name column.
   - Type a description on the same line.
   - Press Enter to save.

3. Display the Library List Objects panel. Enter a 1 in the Opt field before MYLIBLIST and press Enter.

4. On the panel:
   - Press function key 7 to copy the current library list for your job.
   - On a blank line, type 5 in the Seq column and MYLIB in the Library column.
   - Press Enter.
   - Press function key 3 three times to return to the Robot Main Menu.
Steps to Schedule the Job

5. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

6. On the panel:
   - Type **P** (program) in the Job Type field.
   - Type the program name (**RBCLR**) as the job name, and enter a description and notes.
   - Type **30** (12:30 a.m.) as the run time.
   - Type **Y** before **Monday**.
   - Press Enter to save.

7. Display the Control Options panel. Press **function key 23** and select option 5.

8. On the panel:
   - Find the **Library List Name** field and type **MYLIBLIST**.
   - Press **function key 12** to save and return to the Job Schedule List.
**What Should the Job Do?**

Run two System/36 procedures at 4 p.m. on the first Monday of the month. Procedure CATALOG requires no parameters; procedure JB365 in library PRODLIB requires parameters.

**Steps**

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel:
   - Type C (command) in the Job Type field.
   - Type the job name (**JB365**), description, and notes.
   - Type **1600** (4 p.m.) as the run time.
   - Type 1 before Monday (for the first Monday in the month).
   - Press Enter to save.

3. Display the Command Entry panel. Press **function key 23** and select **option 3**.

4. On the panel:
   - On the command line by sequence number **1**, type **STRS36PRC** and press **function key 4**.
   - On the prompt screen, type **CATALOG** in the **Procedure** field and press Enter.
   - To add more lines on the ROBOT Command Entry panel, type 7 in the **Opt** field and press Enter.
   - On a blank command line, type **STRS36PRC** and press **function key 4**.
   - On the prompt screen, type the name of the procedure (**JB365**) in the **Procedure** field, its library (**PRODLIB**) in the **Library** field, and its parameter value (**1,2,3**) in the **Parameters** field.
   - Press **function key 12** to save and return to the Job Schedule List.

---

![ROBOT Command Entry panel](commands-entered-on-prompt-panel.png)
What Should the Job Do?

Execute a sequence of commands when an operator enters the DO option for the job. One of the commands is longer than 60 characters. It contains Robot/SCHEDULE command variables (@1, @2 and @3) for which values are substituted when the command is executed. Default values are provided for the variables. Other values can be passed in if needed.

Steps

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel:
   - Type **C** in the Job Type field.
   - Type the job name (**EXTEDEDCMD**), description, and notes.
   - Do not enter run times or a run schedule—the job is to run only when an operator enters the DO option for the job.
   - Press Enter to save.

3. Display the ROBOT Command Entry panel. Press **function key 23** to display the options window and select **option 3**.

4. On the panel:
   - Start typing the command, **SNDBRKMSG MSG('PLEASE EXIT APPLICATIONS @1, @2, AND @3 IMMEDIATELY. + THANK YOU') TOMSGQ(*ALLWS)**
   - When you run out of space on the first line, press Enter

5. Display the Extended Command Display panel. Enter a **1** in the **Opt** field by sequence number 1 and press Enter.

6. On the panel:
   - Continue typing the command:
     **SNDBRKMSG MSG('PLEASE EXIT APPLICATIONS @1, @2, AND @3 IMMEDIATELY. + THANK YOU') TOMSGQ(*ALLWS)**
   - Press **function key 12** to save and return to the Command Entry panel.

---

![Robot/SCHEDULE command variables.]

---

**Note**

1. Variable substitution symbol is an i.e. @1, @2
2. All commands used must have an OS batch and interactive entry code
3. Continuation symbols are not allowed or necessary
4. All nested ROBOT commands must start with a sign i.e. OVR2 = OVR2
Steps (Continued)

7. Display the Command Variables panel. Press function key 18 on the Command Entry panel.

8. On the panel:
   - Type PAYROLL;ACCTREC;SALES.
   - Press Enter to save.
   - Press function key 11 to test the variable substitution.
   - Check that the values have been substituted correctly into the command.
   - Press function key 3 to return.
**What Should the Job Do?**

Your night processing of accounts receivables has a batch update process that must run before the reports. You run this sequence of jobs beginning at 11:30 a.m. every Thursday. Each successive job is submitted only when the preceding job completes normally. This procedure assumes that the jobs in the group have been scheduled on Robot/SCHEDULE, but are now to be run as a dependent sequence.

**Steps to Create the Group Control Record**

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel:
   - Type **G** (group control) in the Job Type field.
   - Type the job name (**GRPCTL**), description, and notes.
   - Type **1130** as the **Run Time**.
   - Type **Y** by **Thursday** to run the sequence every Thursday.
   - Press Enter to display the Grp. Name field.
   - Type the group name (**ARGRP**).
   - Press Enter to save.

3. Display the Group Control panel. Press **function key 23** and select **Group Options** and **Group Control Job**.

4. On the panel:
   - Type **1** after each group control option on the panel.
   - Press **function key 12** to save and return to the Job Schedule List.
Run a Sequence of Jobs

Steps to Add a Job to the Group

5. On the Job Schedule List panel:
   - Find the group control record to which you want to add jobs.
   - Type 18 in the Opt field by the job and press Enter.

6. On the Group Members panel:
   - Press function key 6 to add local jobs.
   - Press function key 15 to add jobs from a remote system.
   - To reorder the jobs within the group, type the sequence number for the job (10, 20, and so forth).
   - Press function key 12 to save and return to the Job Schedule List.

Group name.

Sequence number.

---

Group Name: GRPCTL  Desc: Rect rec. group control  App: AGRP

<table>
<thead>
<tr>
<th>Opt</th>
<th>Seq</th>
<th>Job Name</th>
<th>Description</th>
<th>Schedule Override</th>
<th>System Name</th>
<th>Schedule Exceptions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10</td>
<td>SALCMD</td>
<td>Command Calculation</td>
<td>TRAINER</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>RECEBAL</td>
<td>Receivables Balance</td>
<td>TRAINER</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>RECEDET</td>
<td>Receivables Detail</td>
<td>TRAINER</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add job from remote system.

Add group member from local system.
How are Parameter Values Changed?

- Pass in Values for Robot/SCHEDULE Command Variables
- Capture Local Data Area
- Calculate Parameter Values Before Executing Command
**How are Parameter Values Changed?**

To run the plant purchasing report, a job executes a command whose parameter values are substituted by Robot/SCHEDULE command variables. To provide parameter values for the next time this job runs, you select a menu option that runs an interactive program. The program executes the RBTBCHUPD command to store the parameter values in the Robot/SCHEDULE job record.

**Steps**

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel:
   - Find the job number in the panel title. Write it down so you can use it later in the RBTBCHUPD command.
   - Type **C** (command) in the Job Type field.
   - Type the job name, description, and notes.
   - Type the run times and run schedule for the job.
   - Press Enter to save.

3. Display the Command Entry panel. Press **function key 23** and select **option 3**.

4. On the panel:
   - Type the command to be executed on the line by sequence number 1:

```
CALL PCH405 PARM('@1' 'X' '@2F' 'X' '@3F')
```

   - The first parameter, @1, is a character parameter.
   - The second and third parameters, @2 and @3, are numeric and must have a preceding X and a following F.
   - The third parameter, @3, is an even size (6,0) and must have a preceding 0 (zero).

   - Press **function key 12** to save and return to the Job Schedule List.
How are Parameter Values Changed?

A report job reads dates from the local data area (LDA). To pass new dates for the next job run, change the current LDA and execute an RBTBCHUPD command to capture the LDA and store it in the Robot/SCHEDULE job record.

Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Find the job number in the panel title. Write it down so you can use it later in the RBTBCHUPD command.
   - Enter the job type, job name, description, and notes.
   - Type the run times and run schedule for the job.
   - Press Enter to save.

3. Display the Local Data Area Entry panel. Press function key 23 and select option 8.

4. On the panel:
   - Type the dates for the initial job run: 010800 021600 031700 042400
   - Press function key 12 to save and return to the Job Schedule List.

Parameter values for the next job run.
Capture Local Data Area

Steps (Continued)

5. Use the CHGDTAARA command to change the data in the LDA:

\[
\text{CHGDTAARA DATAAREA(*LDA) VALUE('051100 061600 070700 082500')}\]

6. Capture the LDA (two methods):

   Method 1: Use the RBTBCHUPD command to store the LDA in the Robot/SCHEDULE job record:

   \[
   \text{RBTBCHUPD JOBNUMBER(444) USE_LDA(Y)}\]

   The data passed in by the command appears on the Local Data Area Entry panel.

   Method 2: Display the LDA Entry panel. Press function key 7 to capture the LDA.
How are Parameter Values Changed?

The invoice report job requires the current date, time, and invoice number as parameter values. The job executes a command that uses Robot/SCHEDULE reserved command variables to substitute those values. The current value of each variable is calculated just before the command is executed. To get the invoice number, the job uses a new reserved command variable that you define.

Steps to Define a New Reserved Command Variable

1. Display the Reserved Command Variable panel. Return to the ROBOT Main Menu, select option 2 to display the Scheduling Objects Menu, and then select option 5 from the Scheduling Objects Menu.


3. On the panel:
   - Define a new reserved command variable. Type the variable name (@@INVNUM) and its description. The variable name must begin with @@.
   - Type the name of the program called to return the variable value (INVNUM) and its library (PRODLIB).
   - Press function key 12 to save and return.
Steps to Create a Job That Uses Reserved Command Variables

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel:
   - Type C (command) in the Job Type field.
   - Type the job name, description, and notes.
   - Type the run times and run schedule for the job.
   - Press Enter to save.

3. Display the Command Entry panel. Press **function key 23** and select **option 3**.

4. On the panel:
   - Type the command on the line by sequence number 1:
     
     ```
     CALL INVRPT PARM( '@@DATE' '@@TIME' '@@INVNUM' )
     ```
     
     The first two variables—@@DATE and @@TIME, pass in the system date and time. The third variable—@@INVNUM, is the reserved command variable you defined to pass in the invoice number.
   - Press **function key 12** to save and return to the Job Schedule List.
What Report Options Should the Job Use?

- Print Separator Page Footer
- Print a Distribution List
- Print a Unique Banner Page for Each Recipient
- Distribute Copies on Network
What Report Options Should the Job Use?

The separator page of the report produced by the job should have a footer that says "Company Classified Material."

Steps

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel:
   - Enter the job type, job name, description, and notes.
   - Type the run times and run schedule for the job.
   - Press Enter to save.

3. Display the Output Options panel. Press **function key 23** and select **option 4**.

4. On the panel:
   - In the field labeled **Print Text**, type **Company Classified Material**.
   - Press Enter to save.
   - Press **function key 3** to return to the Job Schedule List.
**What Report Options Should It Use?**

Every report copy produced by the job should have a cover page with the title “Executive Report” followed by a page listing the recipients of the report.

**Steps**

1. Display the Initial Job Setup panel. Press **function key 6** on the Job Schedule List.

2. On the panel,
   - Pick the job type, and type the job name, description, and notes.
   - Type the run times and run schedule for the job.
   - Press Enter to save.

3. Display the Banner Page panel. Press **function key 23** to display the options window. Select **option 9** to display the Report Distribution panel, press **function key 4** for the *ALL* print file entry, and select **option 3**, Banner Page Entry.

4. On the panel:
   - Type the title lines: **EXECUTIVE REPORT**
   - Type **Y** after **Print Recipient List with Banner Page**.
   - Press **function key 12** to save and return to the Report Distribution panel.
Steps (Continued)

5. Press **function key 4** to display the Recipient Selection panel for the *ALL* print file entry.

6. Select **option 2**, Recipient Selection, from the options window.

   If some of the recipients already have been entered in Robot/SCHEDULE for other reports, you can select those recipients from the Recipient Finder, described in step 7. Otherwise, continue with step 9.

7. Press **function key 8** on the Recipient Selection panel to display the Recipient Finder panel.

8. On the panel:
   - To sort the list by recipient name, press **function key 9** and select **Recipient** from the window.
   - To find a recipient in the list, enter the first characters of the name in the **Start list at Recipient** field.
   - Type **1** in the **Opt** field by each recipient to be added to the list.
   - Press **function key 12** to copy the selected recipients and return to the Print File Recipient List panel.
Steps (Continued)

9. Display the Recipient Setup panel.
   - To correct the information copied from the Recipient Finder, type 1 in the Opt field for the entry.
   - To add a new recipient to the list, press function key 6.

10. On the panel:
   - Enter or correct the recipient name, department, and location as needed.
   - Type Y by each day so the recipient gets a report copy every time the job is run.
   - Press function key 4 in the Output Queue field to select an output queue from the list of authorized queues. Or, type the name of the output queue and its library.
   - Type the number of copies this recipient should receive.
   - Press function key 12 to save and return to the Print File Recipient List panel.

11. Repeat steps 9 and 10 until the recipient list is correct and complete on the Report Recipient panel. Then, press function key 3 twice to return to the Job Schedule List.
What Report Options Should the Job Use?

The title lines on the banner page should list the name, department, and location of the recipient. This example assumes that entries for all recipients of the report are available from the Recipient Finder and that the entry for each recipient contains the output queue for that recipient.

Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Pick the job type, and type the job name, description, and notes.
   - Type the run times and run schedule for the job.
   - Press Enter to save.

3. Display the Print File Recipient List panel. Press function key 23 and select option 12 (press page down).

4. On the panel:
   - Press function key 8 to display the Recipient Finder panel.
   - Type 1 in the Opt field by each recipient to be added to the list.
   - Press function key 12 to copy your selections and return to the Report Recipients panel.

5. Display the Banner Page panel. Enter a 3 in the Opt field before a recipient and press Enter.

6. On the panel:
   - Check that the title is correct. The default title for a recipient entry is the recipient name, department, and location.
   - Check that the Print Recipient List with Banner Page option is N.
   - Press function key 12 to save and return to the Recipient List Selection panel.
   - Repeat steps 5 and 6 for each recipient in the list.
**What Report Options Should the Job Use?**

A report job that is already using Robot/SCHEDULE report distribution is to be changed to send ten copies of its reports to another system on the network. This example assumes that the job has only one recipient list (for *ALL).

**Steps**

1. Display the Recipient Setup panel. Type a 12 by the job on the Job Schedule List, press Enter to display the Report Recipients panel, and press **function key 6** to add a recipient to the list.

2. On the panel:
   - Type the recipient name (**FERGUSON, MARY**), department (**MAIL ORDER**), and location (**MANKATO**).
   - Type **Y** after each day of the week so the copies are sent every time the job is run.
   - Make sure the **Output Queue** and **Library** fields are blank.
   - Type the user ID (**MARYF**). The copies are sent to the default output queue for the user ID. (Be sure to enter a valid ID—Robot/SCHEDULE cannot check that the user ID is valid on the other system.)
   - If Robot/NETWORK is installed, you can press **function key 4** in the **System Address** field to select from a list of system addresses on the network. Otherwise, type the system address in the field.
   - In the **Copies** field, type **10**.
   - Press **function key 12** to save and return to the Report Recipients panel.
Special Jobs

- Setting Up Robot/SCHEDULE Security
- Powering Down the System
- Checking Communication Line Status
How to Set Up Robot/SCHEDULE Security

The following steps show you how to start the Robot/SCHEDULE security system and authorize users to secured objects.

**Note:** If you plan to use the Robot/SCHEDULE security system, you should secure the General System Defaults panel to prevent unauthorized users from being able to turn security off and on (see the Robot/SCHEDULE User Guide for details).

**Steps**

1. Display the General System Defaults panel to start the Robot/SCHEDULE Security System. Display the Robot/SCHEDULE Main Menu, select **option 4** to display the System Setup Menu, and select **option 1**.

2. On the panel:
   - Find the option, **Do you want to use ROBOT security system.**
   - Type **Y** after the option.
   - Press **function key 12** to save and return.

3. Display the Maintain Secured Objects panel to secure specific Robot/SCHEDULE objects. Select **Option 3** from the System Setup menu.
How to Set Up Robot/SCHEDULE Security

Steps (Continued)

4. On the panel, type a 1 in the Opt column of the object for which you want to edit user authorities and press Enter.

5. On the Edit Profiles for Object Authority panel, select Exclude or Use authority for users or an authorization list, press Enter, then press function key 3.

6. Repeat Steps 4 and 5 for each object.
How to Set up a Robot/SCHEDULE Job to Power Down the System

You can set up a Robot/SCHEDULE job that will power down and restart the system automatically. The following job cancels Robot/AUTOTUNE, the dynamic performance tuner and monitor, first. If Robot/AUTOTUNE is not on your system, Robot/SCHEDULE ignores the command.

Steps

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Type C in the Job Type field.
   - Type the job name (PWRDWNYSYS), description, and notes.
   - Type the run time for the job: 2300 (11 p.m. on a 24-hour clock).
   - Type Y by Saturday to run the job every Saturday.
   - Press Enter to save.

3. Display the ROBOT Command Entry panel. Press function key 23 to display the options window and select option 3.

4. On the panel:
   - Type the following, starting at sequence number 1 (enter one command on each line):
     ATLLIB/CNLAT
     DLYJOB DLY(30)
     PWRDWNYSYS OPTION(*CNTRLD) DELAY(600) RESTART(*YES)
   - Press Enter to have Robot/SCHEDULE check the command syntax.

Cancels Robot/AUTOTUNE.
Powers down the system.
Steps (Continued)

5. Display the Extended Command Display panel. Enter a 1 before the Opt field next to the first command—ATLIB/CNLAT.

6. On the panel:
   - Enter a 1 in the Command Error Processing field. This tells Robot/SCHEDULE to run the job even if the command fails because Robot/AUTOTUNE is not on the system.
   - Press function key 12 to save and return.

![Extended Command Display Panel](image)
Checking Communication Line Status

How to Check Communication Line Status

You can schedule a Robot/SCHEDULE job to check communication line status at regular intervals. This example checks at 20-minute intervals every day to make sure that the line is varied on. You can limit the days and hours that the job runs.

Steps to Schedule the Job

1. Display the Initial Job Setup panel. Press function key 6 on the Job Schedule List.

2. On the panel:
   - Pick the job type, and type the job name, description, and notes.
   - Do not enter run times or a run schedule on this panel.
   - Press Enter to save.

3. Display the Advanced Scheduling panel. Press function key 23 and select option 2.

4. On the panel:
   - Type 1 before the EVERY option.
   - Type 20 as the number of minutes between job runs.
   - Press Enter to save.
How to Check Communication Line Status

Steps (Continued)

5. Display the Exception Scheduling panel. Press function key 23 and select option 10.

6. On the panel:
   - Check that the **Allow to Run on Non-Working Days** option is **Y**.
   - To limit the runs to a range of hours, enter the range in the **Start executing job only between times** fields.
   - Press function key 12 to save and return.