TS ReportServer™ Reference Manual



Version 8.8.0

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TS REPORTSERVER

TS ReportServer takes output from Report-IV on the host and presents it graphically at the workstation. It is fully integrated with VIP but does not require that the graphical presentation be installed or enabled, meaning it will also work when running your application in character mode. You can also use TS ReportServer with Gateway for Windows.

PATH DEFINITIONS AND CONVENTIONS

The paths noted in this manual vary depending upon the operating system.

vip-data-path is used to indicate the path where files requiring read and write access are located.

- On Windows Vista/Windows Server 2008/Windows 7/Windows 8/Windows Server 2012 the required path is C:\ProgramData\Thoroughbred Software\TSI.
- On Windows XP the default path is C:\Program Files\TSI.

vip-user-path is used to indicate the path where user specific files requiring read and write access are located.

- On Windows Vista/Windows Server 2008/Windows 7/Windows 8/Windows Server 2012 the required path is C:\Users\tbred2\AppData\Roaming\Thoroughbred Software.
- On Windows XP this is the same as the *vip-data-path*.

vip-program-path is used to indicate the path where executable and some dll files are located.

• On all Window platforms the default path is C:\Program Files\TSI\Bin.

vip-system-path is used to indicate the path where Thoroughbred ini files and other system files that require write access are located.

- On Windows Vista/Windows Server 2008/Windows 7/Windows 8/Windows Server 2012 the required path is C:\ProgramData\Thoroughbred Software.
- On other Window platforms this path may vary, typically it is C:\Documents and Settings\All Users\Application Data\Thoroughbred Software.

SETUP

The Thoroughbred Environment includes the **RPSERV** printer table. From the **System Administration** menu select **Printer Assignment**. For more information see the Dictionary-IV Administrator Guide. Assign any printer device (i.e. **RS**, **LP**, **P1**) to the **RPSERV** printer table. The recommended printer device is **RS**. You will then need to modify your **IPLINPUT** file to include this printer device.

For more information see the Thoroughbred Basic Customization and Tuning Guide.

IPLINPUT for Windows Basic:

```
DEV RS,4,,,,,NUL
or
DEV RS,4,,,,,file-name
```

Where *file-name* is the name of any text file defined in your Thoroughbred Basic Environment for example, *basic-install-path*\Tbsc*RSText.txt*

IPLINPUT for UNIX:

DEV RS,4,,,1,,,/dev/null

For more help on how to use the TS ReportServer

- Select *vip-data-path*\Tsi\Bin\Rps.hlp, or
- Select Help and then select Help Index from the TS ReportServer menu bar.

For more information see the Thoroughbred Basic Customization and Tuning Guide.

Creating and Sending Report-IV Output to TS ReportServer

TS ReportServer is included as a standard output device in the Dictionary-IV printer selection prompt:

```
Select Printer ( LP PA RS PF PN ) : RS_____
```

When TS ReportServer is selected as the output device, the report will automatically be displayed by the TS ReportServer on the client.

🧱 Thoroug	hbred RPS Server - Sam	ple1.rps					
File Edit V	'iew Options Window H	lelp					
	b <i>4</i> ? 4						
Sample						×	
0E-RCUS1 09/20/96		ample System – Custo	omer Listing		Page: 1 09:49 AM		
	,				07.47 84		
Cust Code	Contact	Name	Citu	St SR	Sales		
				== ==			
100100	Tex Rogers	Toot-Your-Horn	Port Lavaca	TX AF	15,827.00		
100101	David Kelly	Fix-M-Up	Seadrift	TX HP	16,253.36		
100102	Sue Thompson	Computer Inc.	Madison	NJ JJ	16,628.04		
100103 100104	Robert Brock Sarah Smith	Today's Company ACME Inc.	Bridgewater Dauton	NJ JS NJ AF	16,951.04 17,222.36		
100105	Walter Snider	Lumber Inc.	Big Horn	ND HP	17,442.00		
100106	Dennis Gohlke	OK Development	Port Lavaca	TX JJ	17,609.96		
100107	John Dworaczyk	Memory Lanes	Victoria	TX JS	10,310.16		
ZZZZZZ1	TEMP CUST1	TEMP CUST1	Port Lavaca	TX Z1	13,759.80		
	TEMP CUST2	TEMP CUST2	Port Lavaca	TX Z2	13,226.85		
	TEMP CUSTA	TEMP CUSTA	Port Lavaca	TX JJ	15,135.78		
	Deleted custs	Deleted custs		ZZ	.00	<u> </u>	
					•	11.	
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Ready				Page 1		N	

TS ReportServer can display multiple reports. Each report is displayed in a window contained by one common TS ReportServer GUI Server window.

📰 Thor	roughbred Ri	PS Server - Sample4.rj)5				
File Ed	lit View Op	tions Window Help					
1	1 🖻 🏉	? 🤇 🛤					
Sar	mple2.rps						
	Sample3.rp	5					
0E	Sample	4.rps					
I 109 109			Sample System - In	nvoice Header		Page: 1 -	
10	Invoice		ameDate		Credits	Payments	
10 10 20		Toot-Your-Horn Fix-M-Up	01/12/96 01/13/96	241.93	.00 .00	.00	
20		Computer Inc.	01/14/96	684.30	.00	.00	
20		Today's Company		884.77	.00	.00	
20		ACME Inc.	01/16/96	1071.39	.00	.00	
30	000006	Lumber Inc.	01/17/96	1244.19	.00	.00	
30	000007	OK Development	01/18/96	1403.18	.00	.00	
30		Memory Lanes	01/19/96	1548.33	.00	.00	
30		TEMP CUST1	01/20/96	2208.45	.00	.00	
liai	000010	TEMP CUST2	01/21/96	2246.47	.00	.00	
	000011	TEMP CUSTA	01/22/96	2699.19	.00	.00	
		Toot-Your-Horn	01/23/96	2903.13	.00	.00 🖵	
_				00FF 00			
							J
							6
< <	Page 1	> >1					
Ready					Page 1		NUM //

Any report displayed by TS ReportServer can be saved locally on the client. By default, the file is saved in TS ReportServer format (with the .rpt file extension). For more information on saving and opening local report files please see "Save a Report" later in this manual.

An application performing CONNECT REPORT can control the output device by pre-setting the printer id. This allows the application to send the report output to the TS ReportServer without user intervention.

If the TS ReportServer is available, Query-IV sends all terminal output to the TS ReportServer for processing. Your application can duplicate this process. Query-IV uses the following tests to determine if the TS ReportServer is available:

Is the default output set to the terminal?

FID(0)

Does the Global variable RPSERV exist?

CGV("RPSERV")

Does the Workstation have GUI capabilities?

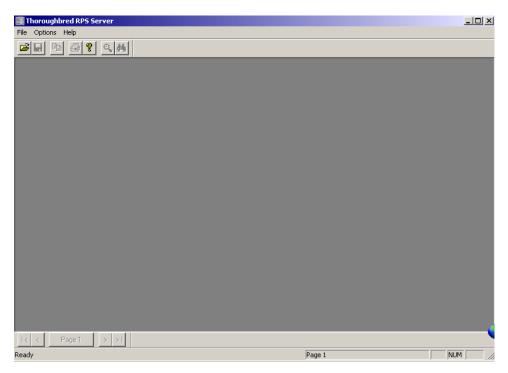
#IDVIP.GUI-ON="Y"

If these tests determine that the TS ReportServer is available set the output device to the Global variable **RPSERV**.

LET REPORT\$[6]=cgv("RPSERV") CONNECT Report "report-name"

TS REPORTSERVER WINDOW

The main TS ReportServer GUI Server window is displayed when TS ReportServer is selected as the output device on the host or when you select the TS ReportServer icon on the client from the VIP program group.



File

Open an rps file

Print Setup to select the printer properties, etc.

Print Setup			? ×
Printer —			
Name:	Apple LaserWriter II NT	.	Properties
Status:	Ready		
Type:	Apple LaserWriter II NT v47.0		
Where:	LPT1:		
Comment			
Paper Size: Source:	Letter	Orientation	 Portrait C Landscape
Network.		OK	Cancel

Recent Files to select from the last files opened.

Exit TS ReportServer.

Options

Check (display) or uncheck (remove) the **Status Bar**, **Pagebar**, and **Toolbar** from the TS ReportServer window. See the graphic above to see where these are located.

Check Paged Scroll to scroll the last 100 pages of the report history.

Help

Access TS ReportServer help.

Open a Report

From the TS ReportServer window select the File menu and then select Open.

Open			? ×
Look in: 🔀	Reports 💌 🗲	🗈 💣 🎟 •	
Sample1.rp	95		
🔄 🖬 Sample2.rp)S		
Sample3.rp)S		
Sample4.rp)5		
Sample5.rp	95		
File name:		Oper	1
Files of type:	Thoroughbred Reports (*.rps)	▼ Cance	<u>ا ا</u>

NOTE: TS ReportServer can only open (display) files that have been saved in .rps format.

The .rps files above are sample reports that are stored in *vip-user-path*\TSI\Reports. Select **Sample1.rps** and the following report appears:

🔙 Thoroug	hbred RPS Server - Sam	ple1.rps					
File Edit '	View Options Window H	telp					
	₽ 3 ? ≤ M						
Sample	1.rps				_ 0	×	
0E-RCUS 09/20/9		ample System – Custo	omer Listing		Page: 1 09:49 AM		
0972079	0				09:49 HM		
Cust							
Code	Contact	Name	City	St SR	Sales		
100100	Tex Rogers	Toot-Your-Horn	Port Lavaca	TX AF	15,827.00		
100101	David Kelly	Fix-M-Up	Seadrift	TX HP	16,253.36		
100102	Sue Thompson Robert Brock	Computer Inc. Today's Company	Madison Bridgewater	NJ JJ NJ JS	16,628.04 16,951.04		
100104	Sarah Smith	ACME Inc.	Dayton	NJ AF	17,222.36		
100105	Walter Snider	Lumber Inc.	Big Horn	ND HP	17,442.00		
100106	Dennis Gohlke John Dworaczyk	OK Development Memoru Lanes	Port Lavaca Victoria	TX JJ TX JS	17,609.96 10,310.16		
ZZZZZ1	TEMP CUST1	TEMP CUST1	Port Lavaca	TX Z1	13,759.80		
ZZZZZ2	TEMP CUST2	TEMP CUST2	Port Lavaca	TX Z2	13,226.85		
ZZZZZA ZZZZZZ	TEMP CUSTA Deleted custs	TEMP CUSTA Deleted custs	Port Lavaca	TX JJ ZZ	15,135.78 .00		
1	Deleted Custs	Deleteu custs		~~~~	.00	2	
				_			
< <	Page 1 > >						
Ready				Page 1			NUM //

NOTE: The TS ReportServer can handle multiple reports as well as split screen viewing within a report. See below.

Menus

File

Open an .rps file located in *vip-user-path*\TSI\Reports.

Close the currently highlighted report.

Save the currently highlighted report.

Save As an .rps or .txt file.

Print the currently highlighted report.

Print Preview of the report before printing.

Print Setup

Displays the dialog box below so you can select the printer, paper size, orientation, etc.

Pi	int Setup			? ×
	Printer —			
	Name:	Apple LaserWriter II NT		Properties
	Status:	Ready		
	Type:	Apple LaserWriter II NT v47.0		
	Where:	LPT1:		
	Comment:			
	– Paper – –		C Orientation	n
	Size:	Letter		 Portrait
	Source:	Automatically Select	A	C Landscape
	Network		OK	Cancel

Recent Files displayed are listed.

Exit TS ReportServer

Edit - Select Copy, Find or Select All

View – Select Zoom In, Zoom Out, or select the Font.

Options – Select to view any or all of the following: Toolbar, Pagebar, Status Bar or Paged Scroll.

Window – Select to Cascade or Tile the windows. You can also Arrange Icons. This simply means that when you minimize a report window, an icon for the report displays at the bottom of the window (see below).



and you move one of the "icons" (see below).

🛃 Thoroughbred RPS Server - Sample5.rps		
File Edit View Options Window Help		
□ □ □ □ □ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
Sample5.rps 🗗 🗵 🗙		
Sample1.rps		
I< < Page 1 > > I		
Ready	Page 1	NUM //

Select **Windows**→ **Arrange Icons** to place them back at the bottom of the screen (see below).

📰 Thor	roughbr	ed RPS Se	rver - Sa	mple5.rps				
		Options		Help			 	
2		8	Q 👭					
DOC -	1.4		Per la per la					
	nple1.rp			ample5.rps 🗗 🗆 🗙				
< <	P	age 1	> >1					
Ready						Page 1		NUM //

Help – Select the Help index or find the version number (About).

Toolbar

The Toolbar can be moved using normal Windows procedures. The following buttons are available from the Toolbar:



Open – This button allows you to open an .rps file to edit.

Save – This button allows you to save the file (the first time opened) or to save edits to the report.

NOTE: From the File menu you can save the report as *.rps, or *.txt files. From the Edit menu you can copy the report to the clipboard, make changes to the report and save, or exit without saving. For more information see Saving a Report.



Copy – This button allows you to copy the edited file to the clipboard.



Print – This button allows you to print the edited file.

About – This button displays the TS ReportServer version.



Font Size – This button allows you to zoom in or out in the report.

Find – This button allows you to search the file for characters, numbers or words.

Split Screen Viewing

With TS ReportServer you can split reports both vertically and horizontally. Each pane contains a set of scroll bars allowing each to be scrolled independently of the other. It supports a total of four panes: two vertical split panes and two horizontal split panes.

Thoroughbred RP5 Server - Sample1.rps ile Edit View Options Window Help	
30 6 7 9	
Sample1.rps I DE-RCUST Sample System - Customer Listing Page: 1 19/20/96 09:49 AM Cust Cust Code Contact Name City St SR Sales	Grab for vertically split screen.
100100 Tex Rogers Toot-Your-Horn Port Lavaca TX AF 15,827.00 100101 David Kelly Fix-M-Up Seadrift TX HP 16,253.36 100101 David Kelly Fix-M-Up Seadrift TX HP 16,253.36 100102 Computer Inc. Madison NJ J 16,628.04 100103 Robert Brock Today's Company Bridgewater NJ Af 16,951.04 100104 Sarah Smith ACME Inc. Dayton NJ Af 17,222.36 100105 Walter Snider Lumber Inc. Big Horn ND HP 17,442.00 100106 Dennis Gohlke OK Development Port Lavaca TX J 10,310.16 100107 John Dworaczyk Memory Lanes Uictoria TX J 10,310.16 222221 TEMP CUST1 TEMP CUST1 Port Lavaca TX 21 13,759.80 222222 TEMP CUST2 TEMP CUST2 Port Lavaca TX J 15,315.78 222222 Deleted custs Deleted custs 22 .00	
I< Page 1 >>1	

Grab for horizontally split screen.

To create two vertical panes

Grab the little button on top of the vertical scroll bar (see graphic above) and then drag your mouse down.

hanned the second	hbred RPS Server - Sam /iew Options Window H					_ 🗆 ×
	`∎ ⊜ ? Q M	ioib.				
Sample	1.rps				_0	۷
0E-RCUS1 09/20/90		ample System – Custo	omer Listing		Page: 1 4 09:49 AM	
Cust Code	Contact	Name	City	St SR == ==	Sales	
100100 100101 100102	Tex Rogers David Kelly Sue Thompson	Toot-Your-Horn Fix-M-Up Computer Inc.	Port Lavaca Seadrift Madison	TX AF TX HP NJ JJ	15,827.00 16,253.36 16,628.04	
100103 100104 100105	Robert Brock Sarah Smith Walter Snider	Today's Company ACME Inc. Lumber Inc.	Bridgewater Dayton Biq Horn	nj js Nj af Nd hp	16,951.04 17,222.36 17,442.00	
0E-RCUST 09/20/90		ample System – Custo	omer Listing		Page: 1 4 09:49 AM	
Cust Code	Contact	Name	City	St SR == ==	Sales	
100100 100101 100102	Tex Rogers David Kelly Sue Thompson	Toot-Your-Horn Fix-M-Up Computer Inc.	Port Lavaca Seadrift Madison	TX AF TX HP NJ JJ	15,827.00 16,253.36 16,628.04	
100103 100104 100105	Robert Brock Sarah Smith Walter Snider	Today's Company ACME Inc. Lumber Inc.	Bridgewater Dayton Big Horn	NJ JS NJ AF ND HP	16,951.04 17,222.36 17,442.00	
100106	Dennis Gohlke	OK Development	Port Lavaca	TX JJ	17,609.96	
	Page1 >>I					
Ready	1 ago 1 7 7 1			Page 1		

You now have two vertical panes that can be scrolled independently. To create a single pane, reverse the procedure used to create two panes.

To create two horizontal panes

Grab the little button on the left of the horizontal scroll bar (see graphic at the beginning of this section) and then drag your mouse to the right.

hanned the second	h <mark>bred RPS Server - S</mark> am View Options Window H			-		
		hini				
Sample	:1.rps					
0E-RCUS		ample System	0E-RCUS 09/20/9	T S 6	ample System - Cus	
Cust Code 100100 100102 100103 100105 100105 100106 100105 100106 222221 222222 222224 222222 222224 222222	Contact Tex Rogers David Kelly Sue Thompson Robert Brock Sarah Smith Walter Snider Dennis Gohlke John Dworaczyk TEMP CUST1 TEMP CUST2 TEMP CUSTA Deleted custs	Toot-Your-Ho Fix-M-Up Computer Inc Today's Comp ACME Inc. Lumber Inc. OK Developme Memory Lanes TEMP CUST1 TEMP CUST2 TEMP CUST3 Deleted cust	Cust Code 	Contact Tex Rogers David Kelly Sue Thompson Robert Brock Sarah Smith Walter Snider Dennis Gohlke John Dworaczyk TEMP CUST1 TEMP CUST2 TEMP CUSTA Deleted custs	Toot-Your-Horn Fix-M-Up Computer Inc. Today's Company ACME Inc. Lumber Inc. OK Development Memory Lanes TEMP CUST1 TEMP CUST2 TEMP CUST2 TEMP CUSTA Deleted custs	
		F				J
1< <	Page 1 > >					
Ready				Pag	le 1	

You now have two horizontal panes that can be scrolled independently. To create a single pane, reverse the procedure used to create two panes.

To create four panes

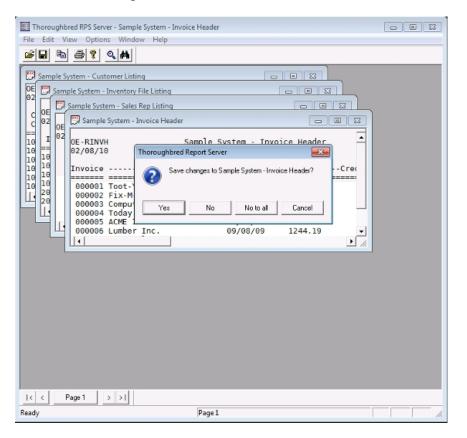
Simply perform the two procedures above and you will have a split screen similar to the one below:

here and the second sec	hbred RPS Server - Sam View Options Window H					
	1 4 7 Q	loip				
		_				
Sample	1.rps				<u> </u>	
0E-RCUS 09/20/9		ample Syste 0	DE-RCUS 09/20/9		ample System - Cust 🔺	
Cust Code	Contact	Na	Cust Code	Contact	Name	
100100 100101 100102 100103 100103 100104	Tex Rogers David Kelly Sue Thompson Robert Brock Sarah Smith	Computer I 1 Today's Co 1	100101 100102	Tex Rogers David Kelly Sue Thompson Robert Brock Sarah Smith	Toot-Your-Horn Fix-M-Up Computer Inc. Today's Company ACME Inc.	
0E-RCUS 09/20/9		ample Syste	DE-RCUS 09/20/9		ample System - Cust 🔺	
Cust Code	Contact		Cust Code	Contact	Name	
100100 100101 100102	Tex Rogers David Kelly Sue Thompson	Computer I 1	100101 100102	Tex Rogers David Kelly Sue Thompson	Toot-Your-Horn Fix-M-Up Computer Inc.	
100103 100104	Robert Brock Sarah Smith		100103 100104 1	Robert Brock Sarah Smith	Today's Company ACME Inc.	
< <	Page 1 > >					
Ready					Page 1	

The frame can be resized using normal Windows procedure. Grab any side or corner and enlarge or decrease the size.

Save a Report

A report can be saved by selecting **File** menu **Save**, by closing a report window or by closing the main TS ReportServer window. The following message is displayed for the top report displayed in the main TS ReportServer window:



Yes – Will save the report prompting for a file name, location and a file extension.

No – Will close the report without saving it.

No to all – Will close the current report without saving and will not prompt you to save when closing other report windows. This eliminates the need to respond No for each opened report.

Cancel – Closes the save dialog and without doing anything.

TS ReportServer allows you to save a report in two formats.

Saving as a Thoroughbred Reports file (*.rps)

• From the **File** menu select **Save**. The report file will be saved to the default folder. The default folder location is set from the WorkStation Manager Default Directories tab. If none is supplied report files will be saved in *vip-user-path*. For more information please see the WorkStation Manager Manual.

• From the **File** menu select **Save As** and then you can save the report as a TS ReportServer file (.rps) in the folder of your choice.

Saving in a different format

From the **File** menu select **Save As** and then you can save the report as a text file (txt) in the folder of your choice.

NOTE: TS ReportServer can only display reports that are saved in .rps format. Once a report is saved as a text file, TS ReportServer cannot be used to open it.

Copying to the Clipboard

From the Edit menu select Copy and then you can Paste the report in any DDE compliant application.

GATEWAY FOR WINDOWS

The host program requires a simple communication. Each page uses a single CALL to the program RPSCOM.

Terminate each line on the page with:

CRLF (CHR(13)+CHR(10))

Terminate each page with:

FF (CHR(12))
page-of-data" + CHR(12)

Prefix the CRLF at the end of each line with a CHR(11) to indicate a heading line.

CHR(11) + CRLF

The TS ReportServer displays a dialog status box as each page is received and processed. Append the following instruction to the final page of the report:

"page-of-data-for-last-page" + "[.END.]"

The TS ReportServer immediately displays the report. It allows complete user manipulation and processing of the report, including forward and backward scrolling, printing to a file, and saving to a file.

Example

The following example illustrates the simplicity of the host programming required to invoke TS ReportServer.

```
00010 REM &REM&

00020 BEGIN;

DIM M$[5];

!Gateway call string

LINEEND$=CHR(13)+CHR(10), !End of

line indicator

HEADLINEEND$=CHR(11)+LINEEND$, !End of heading

indicator

LAST$="[.END.]" !Last

page indicator
```

```
00100 M$[1]="I4",
M$[2]="RPS",
M$[3]="SYSTEM",
M$[5]="[.LOAD.]";
CALL "RPSCOM", M$[ALL];
IF M$[0]<>"."
      GOTO 9000
ELSE
      M$[1]="P",
                                                  !Define Report Message:
      M$[5]="**"+
                                                  !(1,2)="**"
            "UTSAMPLE"+
                                                  !(3,8)=Report name
      !(11,40)=Report Description
            "Gateway for Windows Test Report "+
            "080"+
                                                        !(51,3)=Report
width
             "060";
                                                        !(54,3)=Number of
lines/page
      CALL "RPSCOM", M$[ALL]
00200 REM PAGE1
00210 P$="",
      P$=P$+" HEADING LINE 1 "+HEADLINEEND$,
      P$=P$+" HEADING LINE 2 "+HEADLINEEND$,
      P$=P$+"DETAIL LINE 1 "+LINEEND$,
      P$=P$+"DETAIL LINE 2 "+LINEEND$,
      P$=P$+"DETAIL LINE N "+LINEEND$,
      P$=P$+CHR(12);
      GOSUB 1000
00220 REM PAGE2 THRU PAGEn
00230 P$="",
      P$=P$+" HEADING LINE 1 "+HEADLINEEND$,
      P$=P$+" HEADING LINE 2 "+HEADLINEEND$,
      P$=P$+"DETAIL LINE 1 "+LINEEND$,
      P$=P$+"DETAIL LINE 2 "+LINEEND$,
      P$=P$+"DETAIL LINE N "+LINEEND$,
      P$=P$+CHR(12);
      GOSUB 1000
00240 REM LAST PAGE
00250 P$="",
P$=P$+" HEADING LINE 1 "+HEADLINEEND$,
      P$=P$+" HEADING LINE 2 "+HEADLINEEND$,
      P$=P$+"DETAIL LINE 1 "+LINEEND$,
      P$=P$+"DETAIL LINE 2 "+LINEEND$,
      P$=P$+"DETAIL LINE N "+LINEEND$,
      P$=P$+LAST$;
      GOSUB 1000;
      GOTO 9000
01000 M$[5]=P$;
      CALL "RPSCOM", M$[ALL];
      RETURN
```

```
09000 RUN "**"
```

MULTI-LANGUAGE

For more information about Multi-Language, see the Dialog, Message, and MenuBar Text Translations section in the Multi-Language for VIP.