

命令模式

PRINTer CONFIGURE [name] [/L:lines] [/FONT:font]

Selects a printer for reports.

选定打印报告的打印机。

PRINTer CONFIGURE SECONDAry [name]

Selects a secondary printer for certain graphical reports.

选定打印特定图表报告的二级打印机。

PRINTer CONFIGURE [/FOOT:textfile] [/LOGO:imagefile] [/NOFOOT]

Establishes a footer to be printed at the bottom of each page.

在每页的底部建立页脚。

PRINT filename [SECONDAry] [/PREView:"commands"] [/SPAWN] [/-] LAND]]
[/M:margIn] [/W:width] [/COUNT] [/Thick[:t:ct]]] [/BOLD] [/FONT:font]
[/-]BW] [/HEADMARGIN:inches] [/FOOTMARGIN:inches] [/LEFTMARGIN:inches]
[/PAGE:start[:end] [/PAPER:LETter | LEGal | LEDger | A4 | A3\A2 | h,w | *]
[/SHADE:factor] [/INFO] [/EMAIL:address,...]

Prints the given file to the primary (or SECONDAry) printer.

将指定的文件用主（或二级）打印机打印。

PRINT [REPORT] [/printparams]

Prints and closes the currently open report; equivalent to REPORT CLOSE.

打印并关闭当前打开的报告，和命令 REPORT CLOSE 作用相同。

PRINT [/]PREView:"commands"] [/printparams]

Previews the current report file on the screen while leaving it open for further output; equivalent to REPORT PREVIEW.

预览当前的报告文件，保持文件打开以便输出，和命令 REPORT PREVIEW 作用相同。

参数说明

name

Printer name as known by the operating system, which may include a server prefix (e.g. \\server\printer). A virtual printer can be used that has been installed for PDF file output. DEFAULT restores the system default printer.

操作系统所连接的打印机名称，可以包含服务器前缀(例如\\server\printer)。PDF 文件打印可以使用安装的虚拟打印机。默认为系统打印机。

/L: lines

Specifies the number of lines available on the page. Normal line spacing when printed is 6 per inch, allowing a maximum of 66 lines on 11-inch paper. However, at least 1 inch should be reserved for top and bottom margins, so a value greater than 60 requires forms longer than 11 inches. If omitted, 58 lines is assumed. Recommended

values 63 for 11.7-inch A4 paper, and 76 for 14-inch legal paper, 92 for 16.5" A3, and 94 for 17" ledger paper.

指定每页面的打印行数。正常为每英寸 6 行，即 11 英寸的纸面上最多 66 行。然而，页眉和页脚至少需要保留 1 英寸，所以若要使页面显示大于 60 行，需要长于 11 英寸的页面。如果忽略，默认设置为 58 行。对于 11.7 英寸的 A4 页面推荐显示 63 行，14 英寸的页面推荐显示 76 行，A3 页面 92 行和 17 吋的纸张为 94 行。

/FONT: font

Selects the font name for print footers and fancy report text; the default is "Arial". For non-fancy report text, /FONT:1 specifies a slightly smaller font size, and /FONT:2 slightly larger.

为页脚和高级报告指定字体，默认为 Arial。对于非高级报告字体，/FONT:1 为使用稍小点的字号。/FONT:2 为使用稍大点的字号。

/FOOT: textfile

Supplies the name of a file containing text to be placed in a box at the foot of each page in subsequent reports. Default extension is .TXT.

指定文件名称，将文件的内容作为页脚显示在后续报告中。默认的文件扩展名为.TXT。

/LOGO: imagefile

Supplies the name of a BMP or JPG file containing a graphic image to be included in the footer box. The default extension is .BMP.

指定 BMP 或 JPG 格式的图片名称，将图片显示于页脚。默认格式为 BMP。

/NOFOOT

Discontinues using footers in subsequent reports.

取消后续报告的页面中的页脚。

filename

The name for the print file; default extension is ".PF" (or ".QF" if secondary). If this file name matches an open report, it is closed before printing.

打印文件的文件名称，默认扩展名为.PF（或为.QF），如果此文件名称和某打开的报告同名，在打印前，此报告将被关闭。

/PREVIEW [: "commands"]

Opens a window on the screen for displaying a report one page at a time, closely approximating its look when printed. Clicking the right mouse button brings up a menu listing various controls for paging, panning, zooming, etc. Pressing the "P" key prints the report. Optional commands drive the preview using the specified series of displayable command characters shown in the right-click menu, along with "Wn" to set wait between commands to n milliseconds; "D[[*]n]" to page down n times (default=1; "*" waits between pages); "U[[*]n]" to page up n times (default=1; "*" waits between pages); "MD" to move down scrolling; "MU" to move up scrolling; "ML" to move left scrolling; "MR" to move right scrolling; "R" to repeat starting at the first command; and

"X" to exit. Normal keyboard entry resumes when all commands are done or interrupted by pressing any key (which is discarded).

在屏幕上另外打开窗口逐页显示报告,类似于打印预览。点击鼠标右键显示页面控制菜单:移动,全局显示等。按动"P"键打印报告。鼠标右键的一系列控制菜单项可以控制预览页面:"Wn"设置切换命令等待时间为n毫秒。"D[*]n" 设定页面下翻n次(默认为1,"*"页面间等待)。“U[*]n”设定页面上翻n次(默认为1,"*"页面间等待)。“MD”表示页面下翻,“MU”表示页面上翻。“ML”表示页面左移,“MR”表示页面右移,“R”表示重复开始的第一个命令,“X”表示退出。通常在所有命令运行完毕后,或命令被某按键打断(取消运行的按键)再做键盘操作。

/SPAWN

Allows the preview window to persist while the main program continues.

预览窗口打开时,主程序窗口仍然可以继续操作。

/LAND

Previews all pages in landscape mode.

以横向模式预览所有页面。

/-LAND

Previews all pages in normal mode, disabling auto-landscaping for plot pages.

在正常模式下预览所有页面,禁用绘图页面的自动景观美化。

/M: margin

Sets the left margin for plots in inches; the default value is 0.5 inches.

设定左边页边距,单位为英寸。默认为0.5英寸。

/W: width

Sets the width for plots in inches; the default value is 7.25 inches.

设定显示宽度,单位为英寸。默认为7.25英寸。

/COUNT

Causes the total number of pages to be shown after the page number when printed.

打印时在页码后显示总页数。

/THICK [: t [: ct]]

Specifies the thickness of graph lines in pixels; the default value is 1, or 2 if /THICK by itself. A second thickness ct can be specified that applies only to plotted curves; its default is 2.

指定图表线型的粗细,单位为像素。默认值为1,或为2当与自身一致时。第二个厚度参数ct只用来指定标绘曲线的厚度,默认为2。

/BOLD

Increases the boldness of printed text and box lines.

报告中的文字或线条以粗体显示。

/BW

Forces black-and-white printing to sharpen the image.

使用白底黑字的格式打印，以提高图像的显示度。

`/-BW`

Attempts to print in color even for nominally monochrome printers or print emulators.

采用彩色打印格式，可以打印到黑白打印机或者模拟机上。

`/HEADMARGIN: inches`

Specifies the top margin above the header in inches. The default value 0.5 inches is assumed by all GHS report generating programs, so increasing header margin much beyond 0.5 inches could cause collision of report data.

指定页眉以上的页边距，单位为英寸。所有的 GHS 程序生成的报告默认采用 0.5 英寸，超过 0.5 英寸的页眉页边距会和页面报告数据发生冲突。

`/FOOTMARGIN: inches`

Specifies the bottom margin below the footer in inches; the default value is 0.25 inches. If negative, protection against "Plot area too small" errors is suppressed so Condition Graphics pages can print using the full page area in landscape mode; effective footer margin is absolute value of inches. If the footer is mispositioned due to incorrect printer calibration, this can be corrected by adjusting the specified footer margin upwards or downwards.

指定页脚以下的页边距，单位为英寸，默认为 0.25 英寸。如果是负的，则忽略"Plot area too small"的报错，以便图表可以在全页面横向打印；有效的页脚页边距为绝对值。如果由于打印机错误设置而导致页脚位置不对，这可以通过向上或向下调整页脚页边距来修正。

`/LEFTMARGIN: inches`

Specifies the left margin in inches; the default value is 0.9167 inches.

指定左边页边距，默认为 0.9167 英寸。

`/PAGE: start [: end]`

Prints only the start page of the report; if /PREVIEW is also present, previewing is initially focused on the start page. If an end page number is given, then all pages from start to end are printed.

只打印报告首页，如果出现/PREVIEW，表示只预览报告首页。如果指定尾页页码，那么从首页页码到尾页页码的所有页面都将打印。

`/SHADE:factor`

Adjusts contrast in fancy reports through multiplying the difference between all background colors and white by the specified shade factor (1=default; 0=white background).

通过调换高级报告的背景颜色来调整显示对比度。（1 为默认，0 为白的背景）。

`/INFO`

Prints information about the default printer (which is also written to PPINFO.\$\$\$).

打印默认打印机的信息。（同时写到文件 PPINFO.\$\$\$）

/EMAIL: address,...

Emails the file to address list as a Public Print File with ".PPF" extension, which can be previewed or printed on any computer with GHS or the free GHS Public Print Utility installed. See the COPY command for additional details and optional parameters.

把文件打印后通过电子邮件发出, 文件将打印为公共打印文件(Public Print File), 扩展名为.PPF。它可以通过安装有 GHS 或免费的 GHS Public Print Utility 的电脑预览或打印。参看 COPY 命令了解详细信息和可选参数。

/printparams

Any collection of the slash parameters documented above for the PRINT filename command.

前身说明的命令 PRINT filename 带有所有斜线参数。

Operation

操作

Configuring the Primary Printer

配置主打印机

On program startup, the primary printer is the system default printer. PRINT CONFIGURE can be used to specify a different printer name or (if missing) to pop up a "Print" dialog box for selecting from a list. The new primary printer (along with any other PRINT CONFIGURE changes) will be remembered when the program restarts. If printing to a file is desired, that property must be set for the selected printer through the system printer control panel.

在程序开始, 主打印机是系统默认的打印机。可以用 PRINT CONFIGURE 来配置指定其他打印机或(如果缺省)弹出"Print"对话框从列表中选择一个打印机作为主打印机。新的主打印机(以及任何其他打印配置更改)将在程序重新启动时被记住。如果想要打印到文件, 必须通过系统打印机控制面板设置所选打印机属性。

Configuring the Secondary Printer

配置二级打印机

The secondary printer can be configured to receive certain graphically intense portions of reports which are best printed in color, for modules like Condition Graphics and Grain Shift.

配置二级打印机来打印最好彩色打印的图表报告, 如工况图和谷物移动。

PRINTer CONFIGURE SECONDARY selects the secondary printer (which can be the same physical printer as the primary) by direct specification or dialog box. Again, this command is needed only to change the printer selection from the system default printer.

通过命令 PRINTer CONFIGURE SECONDARY 直接设置或通过对话框选择二级打印机(可以和主打印机相同)。当需要从系统默认打印机改为其他打印机时才应用这个命令。

Establishing a Page Footer

创建页脚

PRINTER CONFIGURE with either the /LOGO image or /FOOT text parameter configures the footer for future reports. This footer is a box at the bottom of every printed page containing a centered image, a centered block of text, or an image followed by text. ASCII 17 (center each line separately), ASCII 18 (omit border box), ASCII 19 (boldface), ASCII 20 (italic), and ASCII 22 (underline) toggles may be used in the text file. Any "{#}", "{#+n}", or "{#-n}" in the footer text file is replaced by the number of pages in the print file up to and including the current page, plus or minus optional integer offset n.

PRINTER CONFIGURE 通过带有参数/LOGO image 或/FOOT text 设置报告的页脚格式。页脚位于页面的底部，包含居中的图片，居中的文本，或文本后跟随图片。文本文件 text 中可以切换如下字符：ASCII 17（各行分别居中），ASCII 18（忽略外边框），ASCII 19（黑体字加粗），ASCII 20（斜体字），和 ASCII 22（下划线）。文本文件 text 中符号"{#}"，"{#+n}"或"{#-n}"将会被打印页码所替代，n 为页码需要增加或者减少的整数。

If the /LOGO:imagefile parameter is present, a BMP or JPG image must appear in imagefile (default extension .BMP). This logo is printed 1 pixel per image bit unless its physical size has been stored within imagefile, in which case it is stretched or contracted to fit. Image height is constrained by the height of the border box around the logo, which is the number of lines contained in the textfile plus 2 border lines (or 6 lines by default if /FOOT is not present) divided by the footer lines per inch (normally 9 LPI); width is normally 6.667 inches.

如果附加参数/LOGO:imagefile，必须要用 BMP 或 jpg 格式的图片文件（默认扩展名为.BMP）。每个位元应为一个像素，否则图片将被拉伸或者压缩以配合大小。图片的高度会受到外框的限制，外框大小为文本文件中的行数加上两行（或为 6 行如果没有/FOOT）再除以页脚每行所占的英寸（通常为 9LPI）；宽度通常为 6.667 英寸。

Use of footers can be turned off by the command PRINT CONFIGURE /NOFOOT. Footer configuration is remembered between GHS runs.

PRINT CONFIGURE /NOFOOT 可以关闭页脚显示。在 GHS 不同的运行中会保存对页脚的设置。

Printing a Report

打印报告

PRINT REPORT prints the current report file. It is therefore only useful after the REPORT command has been issued earlier and the report which it initiated is still open. The PRINT REPORT command (or simply PRINT, omitting the REPORT keyword) then closes and prints the report file. See REPORT CLOSE for an alternate way to accomplish the same thing.

命令 PRINT REPORT 打印当前的报告文件，此命令只在使用命令 REPORT 后且在报告打开的条件下才有用。命令 PRINT REPORT（或仅使用 PRINT，省略关键词 REPORT）会打印且关闭报告文件。查看命令 REPORT CLOSE，可以替代此命令。

PRINT filename prints the contents of a given output file containing a report written earlier. If the extension of filename begins with .QF, it is assumed to be for the secondary printer; otherwise it is sent to the primary printer. However, PRINT filename SECONDARY sends the file to the secondary printer regardless of the extension.

PRINT 文件打印输出之前生成的报告文件。如果扩展名为.QF，此文件被发送二级打印机打印，否则被发送到主打印机打印。但命令 PRINT filename SECONDARY 会把文件直接发送到二级打印机打印无论文件扩展名是什么。

Output

输出

If a filename is specified, or if a report file is open, that file is printed.

如果指定了文件，或有打开的报告，此文件或报告将被打印。

Examples

样例

Configuring a primary printer and font using 63-line A4 paper:

配置主打印机，指定字体，页面大小为可打印 63 行的 A4 页面：

```
PRINTER CONFIGURE "LaserJet" /FONT:"Times New Roman" /L:63
```

Opening a report and printing it to the primary printer when complete:

打开报告并将其发送到主打印机上打印：

```
REPORT STAB1.PF
```

`(commands that produce output go here)

`此处为所需生成报告的命令

```
PRINT
```

Printing an existing report to the primary printer:

在主打印机上打印已存在的报告：

```
PRINT STAB1.PF
```

Printing an existing file to the secondary printer:

在二级打印机上打印已存在的报告：

```
PRINT STAB1.QF SECONDARY
```

Previewing page 7 of a report in black-and-white:

以白纸黑字的形式预览报告第 7 页：

```
PRINT STAB1 /PREV /PAGE:7 /BW
```