

UNISYS

OS 1100

MAPPER[®]

Color Graphics

Operations

Reference Card

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Creating Charts

CHART run	Displays the CHART menu.	
CHART [,selection]run	Bypasses the CHART menu.	
<i>Selection:</i>	BARG	TEXT
	LINEG	BAR3D
	MIXED	TIMEL
	PARETO	C (Displays chart on screen.)
	PIEG	E (Displays example charts.)
	RADAR	G (Loads graphics code.)
	SCAT	H (Displays help information.)
	TARGET	P (Sends code to plotter.)

Creating Charts from Existing Reports

GR run	Creates chart from existing column-formatted report.	
<i>Options:</i>	l	Vertical line chart (default)
	b	Vertical comparative bar chart
	h	Horizontal line chart
	bh	Horizontal comparative bar chart
	s	Stacked bar chart
	f	Filled line chart
	m	Mixed bar and line chart
	c	Scatter chart
	x	Pareto chart
	p	Pie chart
GRID run	Creates chart input report from existing column-formatted report.	
<i>Options:</i>	blank	Line chart (default)
	b	Comparative bar chart
	c	Scatter chart
	p	Pie chart

Managing Charts

MULTI run	Arranges 2, 3, or 4 charts on one screen or plot.	
PLOTIT run	Plots a chart at a remote terminal.	
DISPLAY[selection] run		
<i>Selection:</i>	NEW	Creates index list report
	ADD	Adds to the list
	RUN	Displays charts manually
	CYC	Displays charts automatically
GS (Graphics Scaler)	Changes chart size. Rotates and offsets charts on page or screen. Converts expanded syntax into primitive graphics code.	

Displaying Graphics

g - or CHART,C	With primitive graphics code displayed.
CHART,C,rid	Without primitive graphics code displayed.
g or CHART,C	Without a RID displayed.
DSG statement	With a run.

Creating Signs

SIGN run

Chart Colors and Patterns

Color	Number*	Pen Stall**
Black	0	1
Red	1	3
Green	2	4
Yellow	3	5
Blue	4	2
Magenta	5	7
Cyan	6	2
White	7	1
Gray	8	1
Tan	9	5
Aqua	10	8
Lime	11	6
Violet	12	7
Hot pink	13	3
Turquoise	14	8
Pink	15	3

* Use for TEXT chart and graphics code only. To specify a color for a chart other than a text chart, spell out the color name. For example, type RED to specify the color red.

** Actual color plotted.

Pie and Bar Chart Patterns

Patterns	Codes
None (border only)	N
Solid	0
45-degree left (\\ \\ \\)	1
45-degree right (///)	2
Vertical	3
Horizontal	4
Vertical and horizontal crosshatch	5
45-degree crosshatch	6
Varies by device	>6

Line Chart Patterns

Patterns	Codes
Solid	1
Short dashes	2
Dots	3
Dashes and dots	4
Very short dashes	5
Medium dashes	6
Long dashes	7
Dash and two dots	8
Widely spaced dots	9

Scatter Chart Marker Symbols

Symbols	Codes
Dot (period)	1
Plus (+)	2
Asterisk (*)	3
Circle (O)	4
X	5
Varies by device	>5

Time Line Milestone Markers

Markers	Codes
MARK 1	Triangle
MARK 2	Square
MARK 3	Circle
MARK 4	Diamond

Creating Organization Charts

GOC (Generate Organization Chart) function

Global Parameters

BACKGROUND	Sets chart background color.
COLOR	Sets screen color (Default = Black).
COLUMNS	Displays lowest level as two vertical columns.
CONFIDENTIAL	Adds "CONFIDENTIAL" to upper right corner.
FONT	Sets character font.
HORIZONTAL	Displays lowest level horizontally.
IGNORE	Ignores \$DATA command errors.
LEVEL	Defines new level.
PAGE	Adds page number to chart.
PLOTTER	Outputs result on graphics plotter.
SCOPE	Displays result on graphics terminal.
STAGGER	Displays lowest level as two horizontal rows.
SUB-LEVEL	Defines sublevel.
VERTICAL	Displays lowest level vertically.

Data Commands

\$APPROVED	Adds approval lines in specified position.
\$BLANK	Adds blank line in data.
\$BOX	Draws a box around each item.
\$BOX-COLOR	Draws colored boxes around each item.
\$CONFIDENTIAL	Adds message regarding confidentiality of chart.
\$DASHED	Draws dashed lines for each item.
\$DATE	Adds date in format <i>M DD, YYYY</i> .
\$DATE0	Adds date in format <i>YMMDD</i> .
\$DATE1	Adds date in format <i>YMMDD</i> .
\$DATE2	Adds date in format <i>DD MMM YY</i> .
\$DATE3	Adds date in format <i>YDDD</i> .
\$DATE4	Adds date in format <i>YYDDD</i> .
\$DATE5	Adds date in format <i>DDMMYY</i> .
\$DATE6	Adds date in format <i>MM/DD/YY</i> .
\$DATE7	Adds date in format <i>MONTH DD, YYYY</i> .
\$DATE8	Adds date in format <i>MMDDYY</i> .
\$DUTIES	Adds duties lines to top of chart.
\$END	Marks end of GOC commands.
\$JUSTIFY	Justifies text within boxes.
\$LEVEL	Begins level for following data lines.
\$LINE-COLOR	Draws colored lines to connect items.
\$LOWERCASE	Preserves uppercase or lowercase of text.
\$MISSION	Adds mission lines to top of chart.
\$NO-BOX	Omits boxes for each item.
\$OBJECTIVE	Adds objective lines to top of chart.
\$PAGE	Adds page identifier.
\$RESPONSIBILITY	Adds responsibilities lines to top of chart.
\$\$SIGNATURE	Adds signature lines to specified position.
\$\$SOLID	Draws solid lines for each item.
\$\$SUB-LEVEL	Begins sublevel for following data lines.
\$TITLE	Specifies title of chart.
\$UPPERCASE	Converts all characters to uppercase.

Global Commands

\$COMMENT (\$COM)	Adds comment to GOC command report.
\$FILLER (\$FILL)	Sets character for leading or trailing spaces.
\$INCLUDE (\$INC)	Starts logic sequence (\$INCLUDE/\$ENDI).
\$ENDI	Ends logic sequence of \$INCLUDE.
\$SET	Assigns TRUE or FALSE value for logic sequence of MISSING text.

Expanded Syntax Commands

<i>/CMn[<i>qty</i>,<i>rv1</i>,<i>rv2</i>,...,<i>rv10</i>]/</i>	Call macro
<i>/OCr1,<i>r2</i>[<i>sa</i>,<i>ea</i>]/</i>	Closed ellipse
<i>/.comment string/</i>	Comment
<i>/CA/</i>	Complement rotation angle
<i>/DM[<i>nn</i>][<i>command</i>]V</i>	Define macro
<i>/DMKn0,<i>n1</i>,...,<i>n9</i>/</i>	Draw to mark
<i>/ET/</i>	End of text
<i>/GRz,<i>c1</i>,<i>c2</i>,<i>c3</i>/</i>	Generate grid
<i>/OFr1,<i>r2</i>[<i>sa</i>,<i>ea</i>]/</i>	Filled ellipse
<i>/PMKn0,<i>n1</i>,...,<i>n9</i>/</i>	Generate polygon to mark
<i>/OVr1,<i>r2</i>[<i>sa</i>,<i>ea</i>]/</i>	Hollow ellipse
<i>/ICBx/</i>	Increment background color
<i>/ICFx/</i>	Increment fill color
<i>/ICLx/</i>	Increment line color
<i>/ICMx/</i>	Increment marker color
<i>/IAx.x/</i>	Increment rotation angle
<i>/ISx.x/</i>	Increment scale factor
<i>/ICTx/</i>	Increment text color
<i>/LF[D]/</i>	Line feed down
<i>/LFU/</i>	Line feed up
<i>/MKn/</i>	Mark current position
<i>/AOVx,<i>y</i>,<i>r1</i>,<i>r2</i>,<i>angle</i>/</i>	Move to absolute point
<i>/BOVx,<i>y</i>,<i>r1</i>,<i>r2</i>,<i>angle</i>/</i>	Move to relative point
<i>/XSx.x/</i>	Multiply scale factor
<i>/NAX.x/</i>	New rotation angle
<i>/NSx.x/</i>	New scale factor
<i>/PMn/</i>	Position to mark
<i>/RC/</i>	Reset color index
<i>/ST/</i>	Start of text
<i>/TCox1,<i>nx1</i>[<i>ox2</i>,<i>nx2</i>,...,<i>oxn</i>,<i>nxn</i>]/</i>	Translate color index
<i>/UL/</i>	Underline text

Primitive Graphics Code Commands

Ax,y	Move absolute
Bx,y	Move relative
Cx ¹ ,y ¹ [,x ² ,y ² ,...,x ⁿ ,y ⁿ]	Polyline absolute
CFx	Set font
CJx,y	Set character justification
CPx ⁱ	Set character path
CSx	Set character space
CTX	Set character type
CZx,y	Set character size
Dx ¹ ,y ¹ [,x ² ,y ² ,...,x ⁿ ,y ⁿ]	Polyline relative
Ex ¹ ,y ¹ [,x ² ,y ² ,...,x ⁿ ,y ⁿ]	Polymarker absolute
Fx ¹ ,y ¹ [,x ² ,y ² ,...,x ⁿ ,y ⁿ]	Polymarker relative
Gx ¹ ,y ¹ [,x ² ,y ² ,...,x ⁿ ,y ⁿ]	Polygon absolute
Hx ¹ ,y ¹ [,x ² ,y ² ,...,x ⁿ ,y ⁿ]	Polygon relative
lx,y	Rectangle
Jx,y	Rectangle relative
Kr,sa,ea	Sector
LBx	Background color
LFx	Fill color
LLx	Line color
LSx	Set line style
LTx	Text color
Mr,sa,ea	Arc
Or	Circle
PEx	Set polygon edge style
PHx	Set fill area style
Plx	Set fill area interior
Q	Pen speed
R	Paper size
Sx	Set marker type
Slx	Set marker color
VVx ¹ ,x ² ,y ¹ ,y ²	Set viewport
ZAx	Activate workstation
ZCx	Close workstation
ZDx	Deactivate workstation
Zlx	Initialize graphics
ZNx	Redraw all segments
ZOx	Open workstation
ZSx	Set deferral state
ZT	Terminate graphics