

**PGS.MD3**

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# Chapter 1

## PGS.MD3

### 1.1 geteps

GETEPS

Gets coordinates and information for an EPS object.

```
geteps [POSITION stem] [FRAME string]
[CONTENTOFFSET stem] [CONTENTSCALE stem]
[ROTATION stem] [ABOUT stem] [CONSTRAIN string]
[PRINT string] [FILEINFO stem] [DOCUMENT name |
WINDOW name | OBJECTID number]
```

POSITION/a	Gets the coordinates.
FRAME/s	Gets the frame state.
CONTENTOFFSET/a	Gets the frame contents offset.
CONTENTSCALE/a	Gets the frame contents scale.
ROTATION/a	Gets the rotation.
ABOUT/a	Gets the rotation point.
CONSTRAIN/s	Gets the proportional scale flag state.
PRINT/s	Gets the print flag state.
FILEINFO/a	Gets the file location.
DOCUMENT/s	The document name. Default=current.
WINDOW/s	The window name. Default=current.
OBJECTID/i	The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem	
left/d	The left coordinate.
top/d	The top coordinate.
right/d	The right coordinate.
bottom/d	The bottom coordinate.
FRAME string/s	The frame state: ON OFF.
CONTENTOFFSET stem	
x/d	The horizontal offset.
y/d	The vertical offset.
CONTENTSCALE stem	

h/d	The horizontal scale.
v/d	The vertical scale.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.
FILEINFO stem	
mode/k	The file status: INTERNAL EXTERNAL.
file/s	The filepath and name.

Examples:

```
geteps position coord
```

## 1.2 geterrornumber

GETERRORNUMBER

Gets the number of the last error. Error numbers are different from the RC number, which is merely a measure of the error severity.

```
geterrornumber (no parameters)
```

Results:

The number is returned to RESULT.

Examples:

```
geterrornumber
```

## 1.3 geterrorstring

GETERRORSTRING

Gets a short explanation of the last error. This is similar to the ARexx `errortext()` function, except that this command gets the last PageStream ARexx error.

```
geterrorstring (no parameters)
```

Results:

The message is returned to RESULT.

---

Examples:

```
geterrorstring
```

## 1.4 getfacingpagedisplay

GETFACINGPAGEDISPLAY

Gets the facing page display status.

```
getfacingpagedisplay [WINDOW name]
```

WINDOW/s      The window name. Default=current.

Results:

The facing page display status (ON|OFF) is returned to RESULT.

Examples:

```
getfacingpagedisplay
  if result='ON' then say 'Facing Pages'
```

## 1.5 getfile

GETFILE

Opens a file selector to get a filename and path from the user.

```
getfile <TITLE name> [mode] [PATH name]
[FILE name] [POSBUTTON label] [NEGBUTTON label]
```

TITLE/s          The file selector title.

mode/k           The file selector type: LOAD (default) |  
SAVE.

PATH/s           The default file path. Default=last.

FILE/s           The default filename to open.  
Default=last.

POSBUTTON/s      The label for the positive button.  
Default=Ok.

NEGBUTTON/s      The label for the negative button.  
Default=Cancel.

Results:

If NEGBUTTON is chosen, RC is set to 10. If POSBUTTON is chosen, RC is set to 0 and the full filepath and name are returned to RESULT.

---



Notes:

The file selector does not support keyboard equivalents for buttons, so do not use underscores in the button labels.

Examples:

```
'getfile TITLE "Save a file" save path ram: \ensuremath{\lnot}
  posbutton Save'
```

## 1.6 getfilepath

GETFILEPATH

Opens a file selector to get a file path from the user.

```
getfilepath <TITLE name> [PATH path]
[POSBUTTON label] [NEGBUTTON label]
```

TITLE/s        The file selector title.  
PATH/s        The default file path. Default=last.  
POSBUTTON/s   The label for the positive button.  
              Default=Ok.  
NEGBUTTON/s   The label for the negative button.  
              Default=Cancel.

Results:

If NEGBUTTON is chosen, RC is set to 10. If POSBUTTON is chosen, RC is set to 0 and the path is returned to result.

Notes:

The file selector does not support keyboard equivalents for buttons, so do not use underscores in the button labels.

The ASL path selector is not used because it is a bad example of interface design. It does not list the files in the path---not even ghosted---so it is difficult for the user to know which path to select. Thus, the file selector is substituted and the selected file is just ignored.

Examples:

```
'getfilepath title "Choose a path" path ram: \ensuremath{\lnot}
  posbutton Choose'
```

## 1.7 getfontlist

GETFONTLIST

Gets the names of all the added fonts.

getfontlist <stem>

stem/a Gets the font names.

Results:

The number of fonts is returned to RESULT.

stem

0/i The first font name.

1/i The second font name.

etc.

Examples:

getfontlist fontnames

## 1.8 getfontstyles

GETFONTSTYLES

Gets the names of all the styles of an added font family.

getfontstyles <family stem>

family/s The name of the font family.

stem/a Gets the family's styles.

Results:

The number of styles is returned to RESULT.

stem

0/i The first style name.

1/i The second style name.

etc.

Examples:

getfontstyles Times stylenames

## 1.9 getgreekking

GETGREEKING

Gets the greeking status for a window.

---

getgreek [WINDOW name]

WINDOW/s      The window name. Default=current.

Results:

Returns the greeking status (ON|OFF) to RESULT.

Examples:

```
getgreek
say result
```

## 1.10 getgrid

GETGRID

Gets the snap-to-grid settings for a master page.

getgrid <stem> [MASTERPAGE name]

stem/a          Gets the grid settings.

MASTERPAGE/s   The master page name. Default=current.

Results:

```
stem
h/d            The horizontal grid spacing.
v/d            The vertical grid spacing.
x/d            The horizontal snap offset.
y/d            The vertical snap offset.
snap/k         The snap method: ALL|RANGE.
rangeh/d       The horizontal range.
rangev/d       The vertical range.
displayh/i     The horizontal display interval.
displayv/i     The vertical display interval.
displayx/d     The horizontal display offset.
displayy/d     The vertical display offset.
```

Examples:

```
getgrid info
say info.h
say info.v
```

## 1.11 getgriddisplay

GETGRIDDISPLAY

Gets the grid display status.

---

```
getgriddisplay [DEPTH layer] [COLOR stem]
[WINDOW name]
```

DEPTH/k Gets the grid depth.  
 COLOR/i Gets the red, green and blue components of the grid color.  
 WINDOW/s The window name. (Default=current)

Results:

Returns the grid display status (ON|OFF) to RESULT.

layer/k The depth: INFRONT|INBACK.  
 COLOR stem  
 red/i The red component.  
 green/i The green component.  
 blue/i The blue component.

Examples:

```
getgriddisplay depth layer
  if result='ON' then say 'Grid is shown '||layer
```

## 1.12 getgridobject

GETGRIDOBJECT

Gets coordinates and information for a grid object.

```
getgridobject [POSITION stem] [POINTS stem]
[DIVISIONS stem] [ROTATION stem] [ABOUT stem]
[CONSTRAIN string] [PRINT string] [DOCUMENT name |
WINDOW name | OBJECTID number]
```

POSITION/a Gets the bounding box coordinates.  
 POINTS/a Gets the coordinates of the vertices of a non-rectangular grid object (numbered counterclockwise).  
 DIVISIONS/a Gets the number of grid cells in each direction.  
 ROTATION/a Gets the rotation.  
 ABOUT/a Gets the rotation point.  
 CONSTRAIN/s Gets the proportional scale flag state.  
 PRINT/s Gets the print flag state.  
 DOCUMENT/s The document name. Default=current.  
 WINDOW/s The window name. Default=current.  
 OBJECTID/i The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem  
 left/d The left coordinate.  
 top/d The top coordinate.

right/d	The right coordinate.
bottom/d	The bottom coordinate.
POINTS stem	
x1/d	Point 1's horizontal coordinate.
y1/d	Point 1's vertical coordinate.
x2/d	Point 2's horizontal coordinate.
y2/d	Point 2's vertical coordinate.
x3/d	Point 3's horizontal coordinate.
y3/d	Point 3's vertical coordinate.
x4/d	Point 4's horizontal coordinate.
y4/d	Point 4's vertical coordinate.
DIVISIONS stem	
h/i	The count of horizontal divisions.
v/i	The count of vertical divisions.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.

#### Examples:

```
getgridobject position coord
say 'Left:   '||coord.left
say 'Top:    '||coord.top
say 'Right:  '||coord.right
say 'Bottom: '||coord.bottom
```

## 1.13 getgridsnap

### GETGRIDSnap

Gets the grid snap status.

```
getgridsnap [WINDOW name]
```

WINDOW/s      The window name. Default=current.

#### Results:

Returns the grid snap status (ON|OFF) to RESULT.

#### Examples:

```
getgridsnap
say 'Grid Snap: '||result
```

## 1.14 getgroup

## GETGROUP

Gets coordinates and information for a group.

```

getgroup [POSITION stem]
[ROTATION stem] [ABOUT stem] [CONSTRAIN string]
[PRINT string] [FILEINFO stem] [DOCUMENT name |
WINDOW name | OBJECTID number]

```

POSITION/a	Gets the coordinates.
ROTATION/a	Gets the rotation.
ABOUT/a	Gets the rotation point.
CONSTRAIN/s	Gets the proportional scale flag state.
PRINT/s	Gets the print flag state.
FILEINFO/a	Gets the file location.
DOCUMENT/s	The document name. Default=current.
WINDOW/s	The window name. Default=current.
OBJECTID/i	The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem	
left/d	The left coordinate.
top/d	The top coordinate.
right/d	The right coordinate.
bottom/d	The bottom coordinate.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.

Examples:

```

getgroup position coord
say 'Left:   ' || coord.left
say 'Top:    ' || coord.top
say 'Right:  ' || coord.right
say 'Bottom: ' || coord.bottom

```

## 1.15 getguides

### GETGUIDES

Gets the horizontal or vertical ruler guides for a master page side.

```
getguides <stem> <type> [MPG name]
```

```
stem/a    Gets the guide info.
```

```
type/k    The guide axis. Options: HORIZONTAL|VERTICAL.
```

```
MPG/s     is the master page name. Default=current.
```

Results:

The number of guides is returned to RESULT.

```
stem
```

```
0/i       The position of the first guide.
```

```
1/i       The position of the second guide.
```

```
etc.
```

Examples:

```
getguides info vertical
```

```
say 'There are '||result||' vertical guides.'
```

## 1.16 getguide

GETGUIDE

Gets the snap-to-guide settings for a master page side.

```
getguide <stem> [MASTERPAGE name]
```

```
stem/a     Gets the guide info.
```

```
MASTERPAGE/s The master page name. Default=current.
```

Results:

```
stem
```

```
snap/k     The snap method: ALL|RANGE.
```

```
rangeh/d   The horizontal range.
```

```
rangev/d   The vertical range.
```

Examples:

```
getguide info
```

```
if info.snap='RANGE' then do
```

```
    say 'Snap horizontally within '||info.rangeh
```

```
    say 'Snap vertically within '||info.rangev
```

```
end
```

## 1.17 getguidedisplay

GETGUIDEDISPLAY

Gets the guide display status.

---

```
getguidedisplay [DEPTH layer] [PAGE flag]
[PAGECOLOR stem] [RULER flag] [RULERCOLOR stem]
[WINDOW name]
```

DEPTH/k Gets the guide depth.  
 PAGE/k Gets the page guide display status.  
 PAGECOLOR/i Gets the red, green and blue components of the page guide color.  
 RULER/k Gets the ruler guide display status.  
 RULERCOLOR/i Gets the red, green and blue components of the ruler guide color.  
 WINDOW/s The window name. Default=current.

Results:

Returns the guide display status (ON|OFF) to RESULT.  
 If page and/or ruler guides are displayed, ON will be returned.

DEPTH/k The depth: INFRONT|INBACK.  
 PAGE/k The page guide display status: ON|OFF.  
 RULER/k The page guide display status: ON|OFF.  
 PAGECOLOR stem  
 red/i The red component of the color.  
 green/i The green component of the color.  
 blue/i The blue component of the color.  
 RULERCOLOR stem  
 red/i The red component of the color.  
 green/i The green component of the color.  
 blue/i The blue component of the color.

Examples:

```
getguidedisplay page pflag ruler rflag
if result=ON then do
  say 'Page Guides: '||pflag
  say 'Ruler Guides: '||rflag
end
```

## 1.18 getguidesnap

GETGUIDESNAP

Gets the guide snap status.

```
getguidesnap [WINDOW name]
```

WINDOW/s The window name. Default=current.

Results:

Returns the guide snap status (ON|OFF) to RESULT.

Examples:

---



```
getguidesnap
say 'Guide Snap: '||result
```

## 1.19 getinvisibledisplay

GETINVISIBLEDISPLAY

Gets the invisible symbol display status.

```
getinvisibledisplay [WINDOW name]
```

WINDOW/s      The window name. Default=current.

Results:

Returns the display status (ON|OFF) to RESULT.

Examples:

```
getinvisibledisplay
say 'Invisible Symbol Display: '||result
```

## 1.20 getline

GETLINE

Gets coordinates and information for a line.

```
getline [POSITION stem] [ROTATION stem]
[ABOUT stem] [CONSTRAIN string] [PRINT string]
[DOCUMENT name | WINDOW name | OBJECTID number]
```

POSITION/a      Gets the coordinates.  
 ROTATION/a      Gets the rotation.  
 ABOUT/a        Gets the rotation point.  
 CONSTRAIN/s    Gets the proportional scale flag state.  
 PRINT/s        Gets the print flag state.  
 DOCUMENT/s     The document name. Default=current.  
 WINDOW/s       The window name. Default=current.  
 OBJECTID/i     The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem  
 x1/d            The first endpoint's horizontal  
                  coordinate.  
 y1/d            The first endpoint's vertical  
                  coordinate  
 x2/d            The second endpoint's horizontal  
                  coordinate

y2/d	The second endpoint's vertical coordinate.
ANGLES stem	
type/k	The ellipse type: ELLIPSE PIE ARC.
begin/d	The beginning angle.
end/d	The ending angle.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.

Examples:

```
getline position coord
if coord.x2>coord.x1 then do
    temp=coord.x1
    coord.x1=coord.x2
    coord.x2=temp
    temp=coord.y1
    coord.y1=coord.y2
    coord.y2=temp
end
say 'Left Endpoint: '||coord.x1||', '||coord.y1
say 'Right Endpoint: '||coord.x2||', '||coord.y2
```

## 1.21 getmarginguides

GETMARGINGUIDES

Gets the margin guides for a master page.

getmarginguides <stem> [MASTERPAGE name]

stem/a	Gets the guide information.
MASTERPAGE/s	The master page name. Default=current.

Results:

stem	
inside/d	The inside margin.
outside/d	The outside margin.
top/d	The top margin.
bottom/d	The bottom margin.

Examples:

```
getmarginguides info
say 'Inside margin: '||info.inside
say 'Outside margin: '||info.outside
say 'Top margin: '||info.top
```

```
say 'Bottom margin: ' || info.bottom
```

## 1.22 getmasterpagedesc

GETMASTERPAGEDESC

Gets the description of a master page.

```
getmasterpagedesc [MASTERPAGE name]
```

MASTERPAGE/s The master page name. Default=current.

Results:

The description is returned to RESULT.

Examples:

```
getmasterpagedesc
```

## 1.23 getmasterpages

GETMASTERPAGES

Gets the number of master pages in a document or chapter and their names.

```
getmasterpages <stem>  
[DOCUMENT name | CHAPTER name]
```

stem/a Gets the names of the master pages.

DOCUMENT/s The document name.

CHAPTER/s The chapter name.

Results:

The number of master pages in the document or chapter is returned to RESULT.

stem

0/i The name of the first master page.

1/i The name of the second master page.

etc.

Examples:

```
getmasterpages mpagenames
```

## 1.24 getmeasurements

---

## GETMEASUREMENTS

Gets the default measurement system units.

getmeasurements [COORDINATE stem] [TEXT string]  
[RELATIVE string] [FROM string]

COORDINATE/a Gets the measurement system units.  
 TEXT/s The measurement system for text.  
 RELATIVE/s The measurement system for non-directional measurements. i.e., corner parameter in DRAWBOX. Options: same as COORDINATES.  
 FROM/s Specifies whether the measurements are relative to the page or spread.

Results:

COORDINATE stem  
 vertical/k The vertical measurement system:  
                   INCHES|CENTIMETERS|MILLIMETERS|  
                   PICAS|POINTS|PRINTERPICAS|  
                   PRINTERPOINTS|CICEROS|DIDOTPOINTS|  
                   FEET|METERS|SAMEAS.  
 horizontal/k The horizontal measurement system:  
                   Same as vertical except for SAMEAS.  
 RELATIVE string/k The relative measurement system:  
                   Same as vertical except for SAMEAS.  
 TEXT string/k The text measurement system:  
                   Same as vertical except for SAMEAS.  
 FROM string/k The origin reference: PAGE|SPREAD.

Examples:

getmeasurements coordinate stem points

## 1.25 getobject

### GETOBJECT

Gets the object ID, rotation status and the status of various flags for an object or objects.

getobject [TYPE type] [PAGENUMBER page]  
[ROTATION stem] [ABOUT stem] [CONSTRAIN string]  
[PRINT string] [LOCK flag] [BOUNDINGBOX stem]  
[DOCUMENT name | WINDOW name | OBJECTID number]

TYPE/i Gets the object type.  
 PAGENUMBER/s Gets the full page number path.  
 ROTATION/a Gets the rotation.  
 ABOUT/a Gets the rotation point.  
 CONSTRAIN/s Gets the proportional scale flag state.  
 PRINT/s Gets the print flag state.

LOCK Gets the object lock flag state.  
 BOUNDINGBOX Gets the bounding box of the object(s).  
 DOCUMENT/s The document name. Default=current.  
 WINDOW/s The window name. Default=current.  
 OBJECTID/i The object number. Default=current.

Results:

The object ID is returned to RESULT.

TYPE/i The object type number:  
     2 Drawing  
     3 Group  
     4 Compound  
     5 Box  
     6 Line  
     7 Ellipse  
     8 Grid  
     9 Polygon  
    10 Path  
    11 Text Frame  
    12 Picture  
    13 EPS  
    14 Frameless Text  
    ?? Multiple Select (not assigned)

ROTATION stem  
 mode/k The rotation point: POINT|CENTER.  
 slant/d The slant angle.  
 twist/d The twist angle.

ABOUT stem  
 x/d The point's horizontal coordinate.  
 y/d The point's vertical coordinate.

CONSTRAIN string/k The constrain flag: ON|OFF.  
 PRINT string/k The print flag: ON|OFF.  
 LOCK/k The lock flag: ON|OFF.

BOUNDINGBOX stem  
 left/d The left coordinate.  
 top/d The top coordinate.  
 right/d The right coordinate.  
 bottom/d The bottom coordinate.

Notes:

BOUNDINGBOX: the bounding box includes the stroke thickness of objects, and is expanded to contain rotated objects.

Examples:

```
getobject constrain cflag print pflag
say 'The proportional scale flag is '||cflag
say 'The print flag is '||pflag
```

## 1.26 getobjectlock

GETOBJECTLOCK

Gets the lock status of an object.

```
getobjectlock [DOCUMENT name | WINDOW name |  
OBJECTID number]
```

DOCUMENT/s     The document name.  
WINDOW/s       The window name.  
OBJECTID/i      The number of the object to edit.

Results:

Returns the lock status (ON|OFF|UNKNOWN) to RESULT.  
Unknown means that objects with conflicting lock  
attributes are selected.

Notes:

All options default to the current values if not  
specified.

Examples:

```
getobjectlock window 'View.1'  
say 'Object lock is '||result
```

## 1.27 getoutlinedisplay

GETOUTLINEDISPLAY

Gets the text frame outline display status.

```
getoutlinedisplay [WINDOW name]
```

WINDOW/s     The window name. Default=current.

Results:

Returns the outline display status (ON|OFF) to RESULT.

Examples:

```
getoutlinedisplay  
say 'Text Frame Outline Display: '||result
```

## 1.28 getpagedesc

GETPAGEDESC

Gets the description of a page.

```
getpagedesc [PAGE number]
```

---

PAGE/s The page number. Default=current.

Results:

The description is returned to RESULT.

Examples:

```
getpagedesc
```

## 1.29 getpagemasterpage

GETPAGEMASTERPAGE

Gets the master page name for a page, whether its objects are shown and whether they're shown in front or in back of objects on the page itself.

```
getpagemasterpage [MASTERPAGE name] [SIDE name]
DEPTH level] [PAGE number | DOCUMENT name |
WINDOW name]
```

MASTERPAGE/s Gets the master page name.  
 SIDE/k Gets the master page side (for double-sided pages).  
 DEPTH/k Gets the object depth.  
 PAGE The page number. Default=current.  
 DOCUMENT The document name.  
 WINDOW The window name.

Results:

Returns the master page object display status (ON|OFF) to RESULT.

MASTERPAGE/s The name of the master page.  
 SIDE/k The master page side: LEFT|CENTER|RIGHT.  
 DEPTH/k The object depth: INFRONT|INBACK.

Examples:

```
getpagemasterpage masterpage name page 5
say 'The master page for the current page is '||name
```

## 1.30 getpagename

GETPAGENAME

Gets the name of a page.

```
getpagename [PAGE number]
```

---

PAGE/s The page number. Default=current.

Results:

The name is returned to RESULT.

Examples:

```
getpagename
```

## 1.31 getpagenumbering

GETPAGENUMBERING

Gets the page numbering system.

```
getpagenumbering <stem>
[DOCUMENT name | CHAPTER name | WINDOW name]
```

stem	Gets the page numbering system.
DOCUMENT/s	The document name.
CHAPTER/s	The chapter name.
WINDOW/s	The window name.

Results:

stem	
startmode/k	The page numbering system: AUTOMATIC AUTOEVEN AUTOODD CUSTOM.
start/i	The starting page number.
lengthmode/k	The page length mode: AUTOMATIC CUSTOM.
length/i	The number of pages.
masterpage/s	The name of the master page to use for blank pages.
format/k	The page numbering format: DEFAULT LONG  ARABIC ROMANUPPER ROMANLOWER ALPHAUPPER  ALPHALOWER.
language	The page numbering language: DEFAULT Document/chapter default. AMERICAN (English)   DEUTSCH (German)   NEDERLANDS (Dutch)   SUOMI (Finnish)   ITALIANO (Italian)   ESPAÑOL (Italian)   SVENSKA (Swedish)
prefix	The page number prefix: string.

Examples:

```
getpagenumbering info
```

## 1.32 getpath

GETPATH

---



Gets coordinates and information for a path.

```
getpath [POSITION stem] [ROTATION stem]
[ABOUT stem] [CONSTRAIN string] [PRINT string]
[DOCUMENT name | WINDOW name | OBJECTID number]
```

POSITION/a	Gets the coordinates.
ROTATION/a	Gets the rotation.
ABOUT/a	Gets the rotation point.
CONSTRAIN/s	Gets the proportional scale flag state.
PRINT/s	Gets the print flag state.
DOCUMENT/s	The document name. Default=current.
WINDOW/s	The window name. Default=current.
OBJECTID/i	The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem	
left/d	The left coordinate.
top/d	The top coordinate.
right/d	The right coordinate.
bottom/d	The bottom coordinate.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.

Examples:

```
getpath position coord
say 'Left:   '||coord.left
say 'Top:    '||coord.top
say 'Right:  '||coord.right
say 'Bottom: '||coord.bottom
```

## 1.33 getpicture

GETPICTURE

Gets coordinates and information for a picture.

```
getpicture [POSITION stem] [FRAME string]
[CONTENTOFFSET stem] [CONTENTSCALE stem]
[ROTATION stem] [ABOUT stem] [CONSTRAIN string]
[PRINT string] [FILEINFO stem] [DPI stem]
[DOCUMENT name | WINDOW name | OBJECTID number]
```

POSITION/a	Gets the coordinates.
------------	-----------------------

---

FRAME/s	Gets the frame state.
CONTENTOFFSET/a	Gets the frame contents offset.
CONTENTSCALE/a	Gets the frame contents scale.
ROTATION/a	Gets the rotation.
ABOUT/a	Gets the rotation point.
CONSTRAIN/s	Gets the proportional scale flag state.
PRINT/s	Gets the print flag state.
FILEINFO/a	Gets the file location.
DPI	Gets the resolution.
DOCUMENT/s	The document name. Default=current.
WINDOW/s	The window name. Default=current.
OBJECTID/i	The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem	
left/d	The left coordinate.
top/d	The top coordinate.
right/d	The right coordinate.
bottom/d	The bottom coordinate.
FRAME string/s	The frame state: ON OFF.
CONTENTOFFSET stem	
x/d	The horizontal offset.
y/d	The vertical offset.
CONTENTSCALE stem	
h/d	The horizontal scale.
v/d	The vertical scale.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.
FILEINFO stem	
mode/k	The file status: INTERNAL EXTERNAL.
file/s	The filepath and name.
DPI stem	
x/i	The horizontal resolution
y/i	The vertical resolution

Examples:

```

getpicture position coord
say 'Left:  '||coord.left
say 'Top:   '||coord.top
say 'Right: '||coord.right
say 'Bottom: '||coord.bottom

```

## 1.34 getpicturedisplay

GETPICTUREDISPLAY

Gets the picture display status.

getpicturedisplay [WINDOW name]

WINDOW/s The window name. Default=current.

Results:

Returns the display status (ON|OFF) to RESULT.

Examples:

```
getpicturedisplay
say 'Picture Display: ' || result
```

## 1.35 getpolygon

GETPOLYGON

Gets coordinates and information for a polygon.

```
getpolygon [POSITION stem] [SHAPE stem]
[ROTATION stem] [ABOUT stem] [CONSTRAIN string]
[PRINT string] [DOCUMENT name | WINDOW name |
OBJECTID number]
```

POSITION/a	Gets the coordinates.
SHAPE/a	Gets the polygon shape, sides and angles.
ROTATION/a	Gets the rotation.
ABOUT/a	Gets the rotation point.
CONSTRAIN/s	Gets the proportional scale flag state.
PRINT/s	Gets the print flag state.
DOCUMENT/s	The document name. Default=current.
WINDOW/s	The window name. Default=current.
OBJECTID/i	The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem	
centerx/d	The horizontal center coordinate.
centery/d	The vertical center coordinate.
radiusx/d	The horizontal radius.
radiusy/d	The vertical radius.
SHAPE stem	
type/k	The shape: NORMAL STAR PUFFY SCALLOP WAVY.
sides/i	The number of sides.
offsetangle/d	The pre-rotation angle.

---

deflection/d	The alternate point radius.
deflectionangle/d	The alternate point angle.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.

Examples:

```
getpolygon position coord
say 'Horizontal Center: ' || coord.centerx
say 'Vertical Center: ' || coord.centery
```

## 1.36 getportname

GETPORTNAME

Gets the name of PageStream's ARexx port.

getportname (no parameters)

Results:

The name is returned to RESULT.

Examples:

```
getportname
```

## 1.37 getredo

GETREDO

Gets the type of action that can be redone.

getredo [DOCUMENT name | WINDOW name]

DOCUMENT/s The document name. Default=current.

WINDOW/s The window name. Default=current.

Results:

Returns the type of action that can be redone to RESULT. For example, if the movement of an object had just been undone, it would return "Move".

Examples:

```
getredo
say "Can redo "||result
```

## 1.38 getrefreshmode

GETREFRESHMODE

Gets the refresh mode of a window.

getrefreshmode [WINDOW name]

WINDOW/s        The window name. Default=current.

Results:

Returns the refresh mode (ON|OFF|WAIT) to RESULT.

Examples:

```
getrefreshmode window 'View.1'
say 'Refresh Mode: '||result
```

## 1.39 getregion

GETREGION

Opens a small dialog box to instruct the user to click on the page to return a coordinate value to the script. The requester has a Cancel button.

getregion <stem> [MESSAGE message]

stem/a        Gets the coordinates of the region.  
MESSAGE/s    The message to display in the dialog box.  
              Max length=55.

Results:

If Cancel is chosen, it sets RC to 10. If the user clicks on the page or draws a region, it sets RC to 0 and returns the coordinates to the stem variable.

stem  
x1/d        The start horizontal coordinate.  
y1/d        The start vertical coordinate.  
x2/d        The end horizontal coordinate.  
y2/d        The end vertical coordinate.

Examples:

```
'getregion coord message "Drag to define an area"'
```

---

```

    button=RC
if RC=0 then do
    say coord.x1
    say coord.y1
    say coord.x2
    say coord.y2
end

```

## 1.40 getrotation

### GETROTATION

Gets the rotation (slant and twist) of an object.

```

getrotation <stem>
[DOCUMENT name | WINDOW name | OBJECTID number]

```

```

stem/a      Gets the rotation values.
DOCUMENT/s  The document name. Default=current.
WINDOW/s    The window name. Default=current.
OBJECTID/i  The object number. Default=current.

```

Results:

```

stem
slant/d     The slant angle.
twist/d     The twist angle.

```

Examples:

```

getrotation amount
say 'Slant: '||amount.slant
say 'Twist: '||amount.twist

```

## 1.41 getrulerdisplay

### GETRULERDISPLAY

Gets the ruler display status.

```

getrulerdisplay [OFFSET stem] [ZERO stem]
[MSYS stem] [DIRECTION stem] [WINDOW name]

```

```

OFFSET/a    Gets the ruler offset in pixels from the
             top left corner of the window.
ZERO/a      Gets the ruler zero point.
MSYS/a      Gets the rulers' measurement systems.
DIRECTION/a Gets the rulers' directions.
WINDOW/s    The window name. Default=current.

```

Results:

---

Returns the ruler display status (ON|OFF) to RESULT.

OFFSET stem  
 x/i           The horizontal display offset.  
 y/i           The vertical display offset.  
 ZERO stem  
 x/d           The horizontal zero offset.  
 y/d           The vertical zero offset.  
 MSYS stem  
 h/k           The horizontal ruler measurement system:  
               INCHES|CENTIMETERS|MILLIMETERS|PICAS|  
               POINTS|PRINTERPICAS|PRINTERPOINTS|  
               CICEROS|DIDOTPOINTS|FEET|METERS|SAMEAS.  
 v/k           The vertical ruler measurement system.  
               Same as above.  
 DIRECTION stem  
 h/k           The horizontal measurement direction:  
               LEFT|RIGHT.  
 v/k           The vertical measurement direction:  
               UP|DOWN.

Examples:

```
getrulerdisplay msys system
say 'The rulers are '||result
say 'Horizontal measurement system: '||system.h
say 'Vertical measurement system: '||system.v
```

## 1.42 getselectedobjects

GETSELECTEDOBJECTS

Gets the ID's of all selected objects, as well as their bounding box.

```
getselectedobjects [IDLIST stem]
[BOUNDINGBOX stem] [DOCUMENT name | WINDOW name |
OBJECTID number]
```

IDLIST/a       Gets the ID's of each selected object.  
 BOUNDINGBOX/a Gets the bounding box of the selected  
               objects.  
 DOCUMENT/s    The document name. Default=current.  
 WINDOW/s      The window name. Default=current.  
 OBJECTID/i    The object number. Default=current.

Results:

The object count is returned to RESULT.

IDLIST stem  
 0/i           The ID of the first selected object.  
 1/i           The ID of the second selected object.  
 etc.  
 BOUNDINGBOX stem

```

left/d      The left coordinate.
top/d       The top coordinate.
right/d     The right coordinate.
bottom/d    The bottom coordinate.

```

Notes:

The bounding box includes the stroke thickness of objects, and is expanded to contain rotated objects.

Examples:

```

getselectedobjects boundingbox coord
say 'Left:   '||coord.left
say 'Top:    '||coord.top
say 'Right:  '||coord.right
say 'Bottom: '||coord.bottom

```

## 1.43 gettextframe

GETTEXTFRAME

Gets the number of columns in a frame, and the gutter space between them.

```

gettextframe [COLUMNS number] [GUTTER space]
[DOCUMENT name | WINDOW name | OBJECTID number]

```

```

COLUMNS/i   Gets the number of columns in the frame.
GUTTER/d     Gets the space between columns.
DOCUMENT/s   The document name. Default=current.
WINDOW/s     The window name. Default=current.
OBJECTID/i   The object number. Default=current.

```

Results:

Returns the object's text frame status (ON|OFF) to RESULT.

```

COLUMNS/i   The number of columns.
GUTTER/d     The space between the columns.

```

Examples:

```

gettextframe columns count gutter space
if result='ON' then say \ensuremath{\lnot}
  'Columns: 'count', Gutter: 'space

```

## 1.44 gettextobj

GETTEXTOBJ

Gets coordinates and information for a frameless text

---



object.

```
gettextobj [POSITION stem] [ROTATION stem]
[ABOUT stem] [CONSTRAIN string] [PRINT string]
[DOCUMENT name | WINDOW name | OBJECTID number]
```

POSITION/a	Gets the coordinates.
ROTATION/a	Gets the rotation.
ABOUT/a	Gets the rotation point.
CONSTRAIN/s	Gets the proportional scale flag state.
PRINT/s	Gets the print flag state.
DOCUMENT/s	The document name. Default=current.
WINDOW/s	The window name. Default=current.
OBJECTID/i	The object number. Default=current.

Results:

The object ID is returned to RESULT.

POSITION stem	
left/d	The left coordinate.
top/d	The top coordinate.
right/d	The right coordinate.
bottom/d	The bottom coordinate.
ROTATION stem	
mode/k	The rotation point: POINT CENTER.
slant/d	The slant angle.
twist/d	The twist angle.
ABOUT stem	
x/d	The point's horizontal coordinate.
y/d	The point's vertical coordinate.
CONSTRAIN string/k	The constrain flag: ON OFF.
PRINT string/k	The print flag: ON OFF.

Examples:

```
gettextobj position coord
say 'Left:   '||coord.left
say 'Top:    '||coord.top
say 'Right:  '||coord.right
say 'Bottom: '||coord.bottom
```

## 1.45 gettextwrap

GETTEXTWRAP

Gets the text wrap status of an object.

```
gettextwrap [REGION mode] [WRAP type]
[STANDOFF stem] [DOCUMENT name | WINDOW name |
OBJECTID number]
```

REGION/k	Gets the wrap mode.
WRAP/k	Gets the wrap type.
STANDOFF/a	Gets the text offset from the object.

DOCUMENT/s The document name. Default=current.  
 WINDOW/s The window name. Default=current.  
 OBJECTID/i The object number. Default=current.

Results:

REGION/k The wrap mode: SHAPE|BOUNDINGBOX|FENCE.  
 WRAP/k The wrap type: NOWRAP|WRAPLEFT|WRAPRIGHT|  
 WRAPJUMP|WRAPAROUND|WRAPINSIDE.

STANDOFF stem  
 x/d The horizontal offset.  
 y/d The vertical offset.

Examples:

```
gettextwrap region mode wrap type standoff offset
if mode~='NOWRAP' then
  say 'Text will '||type||' by '||offset.x||\ensuremath{\lnot}
    ' horizontally, and '||offset.y||' vertically.'
```

## 1.46 getscreendpi

GETSCREENDPI

Gets the display resolution of the current screen.

getscreendpi <stem>

stem/a Gets the display dpi.

Results:

x/i The horizontal display dpi.  
 y/i The vertical display dpi.

Examples:

```
getscreendpi rez
say rez.x
say rez.y
```

## 1.47 getscreenname

GETSCREENNAME

Gets the name of the public screen on which  
 PageStream is open.

getscreenname (no parameters)

---

Results:

The name is returned to RESULT.

Examples:

```
getscreenname
```

## 1.48 getstring

GETSTRING

Opens a dialog box with one text string control into which the user can type a string, and two buttons for exit button.

```
getstring [STRING default] [TITLE label]
[POSBUTTON label] [NEGBUTTON label]
```

STRING/s	The default string for the text control. Default=blank.
TITLE/s	The label for the text string control. Max length=8. Default=blank.
POSBUTTON/s	The label for the positive button. Default=Ok.
NEGBUTTON/s	The label for the negative button. Default=Cancel.

Results:

If NEGBUTTON is chosen, RC is set to 10. If POSBUTTON is chosen, RC is set to 0 and returns the string to RESULT.

Notes:

Precede the character to underscore as a bound keyboard equivalent in the label name. For example, "\_Done" would make "D" the keyboard shortcut for the "Done" button.

Examples:

```
'getstring string "Erase this." title "_Text" \ensuremath{\lnot}
  posbutton "_Yes" negbutton "_No"
  userstring=RESULT
  button=RC
```

## 1.49 gettextlinkdisplay

GETTEXTLINKDISPLAY

Gets the text frame link display status.

```
gettextlinkdisplay [WINDOW name]
```

WINDOW/s The window name. Default=current.

Results:

Returns the text link display status (ON|OFF) to RESULT.

Examples:

```
gettextlinkdisplay  
say 'Text Frame Link Display: '||result
```

## 1.50 gettoolmode

GETTOOLMODE

Gets the toolbox mode.

```
gettoolmode [WINDOW name]
```

WINDOW/s The window name. Default=current.

Results:

Returns the toolmode to RESULT (OBJECT|RESHAPE|CROP|MAGNIFY|TEXT|EYEDROPPER|COLUMN|LINE|BOX|RBOX|ELLIPSE|ARC|PEN|FREEHAND|GRID|ROUTETEXT).

Examples:

```
gettoolmode window 'Untitled 1~View.1'
```

## 1.51 getundo

GETUNDO

Gets the type of action that can be undone.

```
getundo [DOCUMENT name | WINDOW name]
```

DOCUMENT/s The document name. Default=current.  
WINDOW/s The window name. Default=current.

Results:

Returns the type of action that can be undone to RESULT. For example, if an object had just been rotated, it would return "Rotate".

---

Examples:

```
getundo
say "Can undo "||result
```

## 1.52 getwindowpos

GETWINDOWPOS

Gets the size and position of a document window.

```
getwindowpos [AT stem] [SIZE stem] [WINDOW name]
```

AT/a Gets the window position.  
SIZE/a Gets the window size in pixels.  
WINDOW/s The window name. Default=current.

Results:

AT stem  
x/i The horizontal window position.  
y/i The vertical window position.  
SIZE stem  
w/i The window width.  
h/i The window height.

Examples:

```
getwindowpos at coords size coords
say 'Left: '||coords.x
say 'Top: '||coords.y
say 'Width: '||coords.w
say 'Height: '||coords.h
```

## 1.53 getwindows

GETWINDOWS

Gets the names of the open view windows for a document.

```
getwindows <stem> [DOCUMENT name]
```

stem/a Gets the view names.  
DOCUMENT/s The document name. Default=current.

Results:

The number of open windows is returned to RESULT.

stem  
0/i The name of the first view.

---

l/i            The name of the second view.  
etc.

Examples:

getwindows winnames

## 1.54 greeking

GREEKING

Changes the text greeking status.

greeking <status> [WINDOW name]

status/k    The greeking status. Options: ON|OFF|  
             TOGGLE.

WINDOW/s    The window name. Default=current.

Examples:

greeking off

## 1.55 group

GROUP

Groups selected objects into a logical group.

group [POSITION left top right bottom]  
[ROTATE angle | SKEW slantangle twistangle |  
SLANT angle | TWIST angle] [ABOUT pointx pointy |  
ABOUTCENTER] [constraint] [printable] [stack]  
[DOCUMENT name | WINDOW name]

POSITION/d    The coordinates of the object.  
               Default=current bounding box.

ROTATE/d      The rotation angle. Default=0.

SKEW/d        The slant and twist angle.  
               Default=0.

SLANT/d       The slant angle. Default=0.

TWIST/d       The twist angle. Default=0.

ABOUT/d      The rotation point.

ABOUTCENTER Rotates around its center. Default.

constraint/k   The aspect ratio constraint toggle.  
                 Options: CONSTRAIN|FREE (default).

printable/k    The print object toggle. Options:  
                 PRINT (default)|NOPRINT.

stack/k        The stack position. Options:  
                 INFRONT|INBACK|BEST (default). Best  
                 creates at the optimum stack level.

DOCUMENT/s    The document name. Default=current.

WINDOW/s        The window name. Default=current.

Results:

The identification number (handle) of the new object is returned to RESULT.

Examples:

```
group
```

```
group inback
```

```
group 1 1 5.23 6.24 document 'project.doc'
```

## 1.56 hidewindow

HIDEWINDOW

Hides the current window, all windows for the document, or all open windows.

hidewindow [which | WINDOW name]

which/k    The window(s) to hide. Options:  
          CURRENT    Hides the current window. Default.  
          ALL        Hides all open windows.  
          EXCEPT    Hides all but the current window.  
WINDOW/s    Will hide a specific window.

Examples:

```
hidewindow
```

```
hidewindow all
```

---