PostScript extra library





PostScript Extra library

$\underline{Constants}$

Name	Туре	Description
_ver	string	The current version
_revision	string	The current version release date

Commands and functions

No	Name	Syntax	Description
1.	psx.verctrl	<pre><version> psx.verctrl ⇒ -</version></pre>	Checks the library version against <version> and quits with an error message if less</version>
2.	printPSXVersion	printPSXVersion \Rightarrow -	Produces a page with the product name, version and release date
3.	ltrim	$\langle s1 \rangle$ ltrim $\Rightarrow \langle s2 \rangle$	Trims s1 of leading spaces
4.	rtrim	$\langle s1 \rangle$ rtrim $\Rightarrow \langle s2 \rangle$	Trims s1 of trailing spaces
5.	toUppercase	<s1> toUppercase ⇒ <s2></s2></s1>	Converts <s1> to upper case</s1>
6.	cats	<s1> <s2> cats ⇒ <s></s></s2></s1>	Concatenates <s1> and <s2> into <s></s></s2></s1>
7.	cats=	<s2> cats= ⇒ -</s2>	Concatenates and <s2> into ; must be a Ivalue name</s2>
8.	CVSX	<number> cvsx ⇒ <string></string></number>	Converts <number> to <string></string></number>

9.	mm	<n> mm ⇒ <m></m></n>	Converts <n> in millimeters to <m> in points</m></n>
10.	in	<n> in ⇒ <m></m></n>	Converts <n> in inches to <m> in points</m></n>
11.	mmv, inv	<pre><verticalposition> mmv ⇒ <vpos> <verticalposition> inv ⇒ <vpos></vpos></verticalposition></vpos></verticalposition></pre>	Converts vertical position in millimeters or inches measured from the upper edge to points measured from the lower edge
12.	++	++ ⇒ -	
13.		⇒ -	Perform C-style increment, decrement, conversion to integer, negation of /variable
14.	cvi=	cvi= ⇒ -	
15.	neg=	neg= \Rightarrow -	
16.	add=	<operand> add= \Rightarrow -</operand>	
17.	sub=	<operand> sub= ⇒ -</operand>	
18.	mul=	<pre> <pre>mul= \Rightarrow -</pre></pre>	Perform C-style compound addition, subtraction, multiplication, division and modulo into /variable
19.	div=	<pre>div= \Rightarrow -</pre>	
20.	mod=	<operand> mod= \Rightarrow -</operand>	

21.	coalesce	<value> coalesce ⇒ -</value>	coalesce operator Defines a variable with a default value unless already defined
22.	formatInteger	<pre><number> <length> formatInteger ⇒ <s></s></length></number></pre>	Formats a non-negative integer into <length> characters with leading zeroes.</length>
23.	hexdump	$\langle s1 \rangle$ hexdump $\Rightarrow \langle s2 \rangle$	Formats a string to hexadecimal dump.
24.	formatCurr	$\langle s1 \rangle$ formatCurr $\Rightarrow \langle s2 \rangle$	Formats a numeric string with 2 decimal positions (currency).
25.	setFilePaths	<folder array="" names=""> setFilePaths \Rightarrow -</folder>	Sets the file search paths list
26.	findFile	<filename> findFile ⇒ false <canonical file="" name=""> true</canonical></filename>	Searches a file using the file search paths list; Returns false if not found or the full (canonical) file name and true otherwise
27.	xpSubst	<s1> xpSubst ⇒ <s2></s2></s1>	Substitutes expressions that are embedded into s1 with their results. Embedded expressions must be delimited in an ASP-like style like <%= exp =%>
28.	gray	<pre><percentage> gray ⇒ -</percentage></pre>	Sets the current foreground color to <percentage> gray. <percentage> is between 0 and 100</percentage></percentage>
29.	black	black ⇒ -	Sets the current foreground color to black
30.	white	white \Rightarrow -	Sets the current foreground color to white
31.	setMediaSize	<pre><width> <height> setMediaSize ⇒ - <pre><predefined size=""> setMediaSize ⇒ -</predefined></pre></height></width></pre>	Sets the current media size
32.	setMediaByName	<media name=""> setMediaByName ⇒ -</media>	Sets the current media by name

33.	setMediaByColor	<media name=""> setMediaByColor ⇒ -</media>	Sets the current media by color
34.	setPaperTray	<tray number=""> setPaperTray ⇒ -</tray>	Sets the current paper tray
35.	setDuplex	<true false> setDuplex ⇒ -</true false>	Sets duplex printing on or off
36.	jogOutput	jogOutput ⇒ -	Offsets the output stack
37.	initPageNumber	<n> initPageNumber ⇒ -</n>	Initializes the page numbering sequence from <n> for placePageNumber</n>
38.	placePageNumber	<pre><x> <y> placePageNumber \Rightarrow -</y></x></pre>	Prints the current page number at coordinates <x> <y></y></x>
39.	placeEPS	<pre><epsfile> <scale> <x> <y> placeEPS ⇒ -</y></x></scale></epsfile></pre>	Places a <scale>-d <epsfile> image at <x> <y> coordinates</y></x></epsfile></scale>
40.	setBackground	<pre><epsfile> setBackground \Rightarrow -</epsfile></pre>	Places <epsfile> as a full page background</epsfile>
41.	cropMark	$<$ X> $<$ Y> cropMark \Rightarrow -	Prints a crop mark (hairline cross in a circle) at <x> <y> coordinates</y></x>
42.	textOut	<text> <x> <y> textOut ⇒ -</y></x></text>	Prints left-aligned <text> at <x> <y> coordinates using the current font</y></x></text>
43.	textOutW	<text> <x> <y> <maxwidth> textOutW \Rightarrow -</maxwidth></y></x></text>	Prints left-aligned <text> at <x> <y> coordinates not wider than <maxwidth></maxwidth></y></x></text>
44.	rtextOut	<text> <x> <y> rtextOut ⇒ -</y></x></text>	Prints right-aligned <text> at <x> <y> coordinates using the current font</y></x></text>

45.	ctextOut	<text> <x> <y> ctextOut ⇒ -</y></x></text>	Prints centered <text> at <x> <y> coordinates using the current font</y></x></text>
46.	IvTextOut	<text> <x> <y> lvTextOut ⇒ -</y></x></text>	Prints left-aligned vertical <text> at <x> <y> coordinates using the current font</y></x></text>
47.	rvTextOut	<text> <x> <y> rvTextOut ⇒ -</y></x></text>	Prints right-aligned vertical <text> at <x> <y> coordinates using the current font</y></x></text>
48.	angleTextOut	<text> <angle> <x> <y> angleTextOut \Rightarrow -</y></x></angle></text>	Prints left-aligned <text> at <x> <y> coordinates at <angle> using the current font</angle></y></x></text>
49.	bxLShow	$\langle \text{string} \rangle \langle \text{X} \rangle \langle \text{Y} \rangle \langle \text{step} \rangle \text{ bxLShow} \Rightarrow -$	Prints left-aligned <text> at <x> <y> coordinates using the current font with a fixed distance <step> between characters</step></y></x></text>
50.	bxRShow	<pre><string> <x> <y> <step> bxRShow \Rightarrow -</step></y></x></string></pre>	Prints right-aligned <text> at <x> <y> coordinates using the current font with a fixed distance <step> between characters</step></y></x></text>
51.	OMR_INIT	<x> <y> OMR_INIT ⇒ -</y></x>	Sets the upper right corner coordinates of the first OMR mark to <x> and <y></y></x>
52.	OMR_SAVE	OMR_SAVE ⇒ <omr snapshot="" state=""></omr>	Makes a snapshot of the current OMR state and places it on the stack
53.	OMR_RESTORE	<pre><omr snapshot="" state=""> OMR_RESTORE ⇒ -</omr></pre>	Restores an OMR state from a snapshot
54.	OMR_DIR	(LR) (RL) OMR_DIR ⇒ -	Sets the reading direction (LR – left to right or RL – right to left) RL is the default
55.	OMR_DRAW	<pre><group> <inserts> OMR_DRAW ⇒ -</inserts></group></pre>	Draws an OMR image; Non-zero <group> forces a new envelope; <insert> controls insertion of leaflets in a bitwise manner</insert></group>
56.	OMR_PARTIAL	<pre><group> <inserts> OMR_PARTIAL ⇒ -</inserts></group></pre>	Draws only the grouping and inserting marks of an OMR image; Does not affect the sequence

57.	setDefaultFieldSeparator	<s> setDefaultFieldSeparator ⇒ -</s>	Sets the field separator for documentMerge
58.	setBufferSize	<n> setBufferSize ⇒ -</n>	Sets the line buffer size for documentMerge
59.	documentMerge	<pre><var array="" names=""> <template file=""> documentMerge ⇒ -</template></var></pre>	Performs database mode document merging by running <template file=""> for every subsequent line with fields assigned to the corresponding names from <var array="" names="">. Database mode force-ends if ==END=OF=LINE=DATA== line is encountered.</var></template>
60.	linePrinter	<pre><parametersdictionary> linePrinter \Rightarrow -</parametersdictionary></pre>	Pints pre-formatted text lines. Line data must follow the linePrinter command and finish with ==END=OF=LINE=DATA== line. parametersDictionary contents: /firstPageX, /firstPageY, /nextPageX, /nextPageY, /vStep, /firstPageHeight, /nextPageHeight and a /beforePage callback method (optional). The /beforePage receives parametersDictionary on the stack when called. A /pageNo element (1-based) is added to parametersDictionary and updated by linePrinter.
61.	settextblock	<pre><parameters dictionary=""> settextblock \Rightarrow</parameters></pre>	Sets the parameters for text reflow and print by textblock. Keys/values: /X (upper left corner), /Y, /VS (vertical step b/w lines), /W (block width), /Align Possible /Align values: /Align.left, /Align.right, /Align.centre, /Align.justify
62.	textblock	<s> textblock ⇒ -</s>	Reflows and prints <s> according to the parameters set by settextblock</s>
63.	txtb.lf	txtb.lf ⇒ -	Performs linefeed in text block mode (calculates and assigns a new vertical position for the nest call of textblock)
64.	txtb.getX	txtb.getX ⇒ <x></x>	Returns the current horizontal position in text block mode
65.	txtb.getY	$txtb.getY \Rightarrow <_{y}>$	Returns the current vertical position in text block mode
66.	manyTimes	 	Executes a pair of procedures in a brick-mortar manner, ie. if n is 3 then brick-mortar-brick

67.	setbarcode	<pre><parameters dictionary=""> setbarcode \Rightarrow -</parameters></pre>	Similar to setpagedevice. Configures the barcode writer device according to the contents of the parameters dictionary. Keys/values: /Height - the height of the barcode symbol; Default is 1 inch /Width - the width of the barcode symbol; Default is 1 pt per thin bar /Human.readable - may be true or false (default) /Encoding - /Barcode.128B, /Barcode.128C, /Barcode.128D*, /Barcode.EANI3, /Barcode.I20F5, /Barcode.I20F5C or /Barcode.39 (the default)
68.	barcode	<s> barcode ⇒ -</s>	Prints s as barcode lower-left aligned at the current position
69.	setMultiUp	<pre><parameters dictionary=""> setMultiUp \Rightarrow -</parameters></pre>	Similar to setpagedevice. Configures multi-up layout according to the contents of the parameters dictionary. Keys/values: /PagesWide - number of columns /PagesHigh - number of rows /ColumnWidth - column width /RowHeight - Row height
70.	adjustX	<n> adjustX ⇒ <m></m></n>	Multi-up mode - converts horizontal coordinate within the logical page to absolute horizontal coordinate within the physical page
71.	adjustY	<n> adjustY ⇒ <m></m></n>	Multi-up mode - converts vertical coordinate within the logical page to absolute vertical coordinate within the physical page
72.	nextSubPage	nextSubPage ⇒ -	Multi-up mode equivalent of showpage. Logical pages start from the upper-left corner of the physical sheet and advance first right then down (Z-order)
73.	multiUpEnd	multiUpEnd ⇒ -	Multi-up mode - flushes the last physical page (if partially full)
74.	slovom	$<$ n> slovom \Rightarrow $<$ s>	Converts a number into its textual representation as currency in the Bulgarian language
75.	strpad	<s1> <length> <padding> strpad \Rightarrow <s2></s2></padding></length></s1>	Left pad a string to fixed length; <pre><pre><pre><pre>cpadding></pre> must be long enough to cut from</pre></pre></pre>

76.	makeForm.A4	/ <formname> <eps-fname> makeForm.A4 \Rightarrow -</eps-fname></formname>	Creates an A4-size PostScript form from EPS file to be used with execform or execformx.
77.	execformx	<formname> execformx ⇒ - <formname> <dx> <dy> execformx ⇒ -</dy></dx></formname></formname>	Without <dx> and <dy> - the same as <formname> execform With <dx> and <dy> - first <dx> <dy> translate then <formname> execform</formname></dy></dx></dy></dx></formname></dy></dx>
78.	set.TL.params	<pre><parameters dictionary=""> set.TL.params ⇒ -</parameters></pre>	Configures underline and strikethrough parameters Keys/values: /strikewidth – strikethrough line widt /underlinewidth – underline line widt /strikeascend – strikethrough ascend above baseline /underlinedescend – underline descend below baseline
79.	underlineTextOut	<text> <x> <y> underlineTextOut ⇒ -</y></x></text>	Prints left-aligned underlined <text> at <x> <y> coordinates using the current font</y></x></text>
80.	strikethroughTextOut	$<$ text $>$ $<$ X $>$ $<$ Y $>$ strikethroughTextOut \Rightarrow -	Prints left-aligned stricken-through <text> at <x> <y> coordinates using the current font</y></x></text>
81.	set.ITB.params	<pre><parameters dictionary=""> set.ITB.params ⇒ -</parameters></pre>	Configures the inverse textbox parameters Keys/values: /height — the box height /width — the box width /background — background shade of gray b/w 0 and 1. 1 is black /foreground — foreground shade of gray b/w 0 and 1. 0 is white /font.face /font.size /ascend — text ascend above baseline
82.	set.ITB.font	set.ITB.font ⇒ -	Caches the specified font. Must be called at least once before callig inverseTextBox
83.	inverseTextBox	<text> inverseTextBox ⇒ -</text>	Prints an inverse textbox at the current location

Deprecated			
1.	BC3OF9	<s1> BC30F9 ⇒ <s2></s2></s1>	Encodes <s1> for barcode 3 of 9 printing. Requires font /MB17I Use setbarcode and barcode instead of BC30F9</s1>
2.	BC3OF9CS	<s1> BC30F9CS ⇒ <s2></s2></s1>	Encodes <s1> for barcode 3 of 9 printing with control symbol. Requires font /MB17I Use setbarcode and barcode instead of BC30F9CS</s1>
3.	BC128C	<s1> BC128C ⇒ <s2></s2></s1>	Encodes <s1> for barcode Code-128C printing. Requires font /MB021 Use setbarcode and barcode instead of BC128C</s1>
4.	sdef	<name> <value> sdef \Rightarrow -</value></name>	Defines <name> only if not already defined. The value persists between calls. Implements the behavior of a static variable definition. Use store instead of sdef</name>

^{* /}Barcode.128D is to be used for high density digits-only barcodes

Predefined media sizes

A4, A4L, A3, A3L, Letter, LetterL, Legal, LegalL

Hello world application

%! A4 setMediaSize /Courier 12 selectfont (Hello, PSX world!) 105 mm 20 mmv ctextOut printPSXVersion