UF_PLOT_add_job_to_plot_layout (view source)

Defined in: uf_plot.h

Overview

Adds a plot job to the plot layout, and outputs the rectangular bounds of the plot in the specified units coordinates.
NOTE - If an error occurs during execution, the plot layout will be cleared.

Environment

Internal and External

See Also

UF_PLOT_job_options_t

History

Originally released in NX3.0.

Required License(s)

gateway

```
int UF_PLOT_add_job_to_plot_layout
(
    tag_t drawing_sheet,
    UF_PLOT_job_options_p_t job_options,
    const char * job_name,
    UF_PLOT_units_t units,
    double origin [ 2 ] ,
    UF_PLOT_rotation_t rotation,
    double scale,
    UF_PLOT_extents_p_t extents
)
```

tag_t	drawing_sheet	Input	Tag of drawing sheet. If this is NULL_TAG, the current display is being plotted.
UF_PLOT_job_options_p_t	job_options	Input	Specifies plot job options. If NULL, current session job options are used instead. If non-NULL, call UF_PLOT_ask_default_job_options or UF_PLOT_ask_session_job_options to initialize the structure before setting structure fields. Current session job options are not modified by structure values.
const char *	job_name	Input	Name of the job
UF_PLOT_units_t	units	Input	Units used to define the plot origin and extents.
double	origin [2]	Input	The location of the plot origin expressed in the specified units.
UF_PLOT_rotation_t	rotation	Input	Defines the orientation of the plot in the plot layout.

double	scale	Input	Defines the scale of the plot in the plot layout.
UF_PLOT_extents_p_t	extents	Output	If non-NULL the rectangular bounds of the plot in the layout (the coordinates of the lower-left and the upper-right corners of the plot in millimeters or inches as indicated by the units parameter) are returned.

UF_PLOT_ask_default_banner_options (view source)

Defined in: uf_plot.h

Overview
Returns the default banner option settings.

Environment
Internal and External

See Also
UF_PLOT_banner_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

> **int UF_PLOT_ask_default_banner_options**
> **(**
>   **UF_PLOT_banner_options_p_t banner_options**
> **)**

UF_PLOT_banner_options_p_t	banner_options	Output	Non-null pointer to a banner options data structure.

UF_PLOT_ask_default_custom_colors (view source)

Defined in: uf_plot.h

Overview
Returns the default plotting custom colors.

Environment
Internal and External

See Also
UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History

Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_default_custom_colors
(
    UF_PLOT_custom_colors_p_t custom_colors
)

UF_PLOT_custom_colors_p_t	**custom_colors**	Output	Pointer to the custom colors data structure.

UF_PLOT_ask_default_custom_widths (view source)

Defined in: uf_plot.h

Overview
Returns the default plotting custom widths.

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_default_custom_widths
(
    UF_PLOT_custom_widths_p_t custom_widths
)

UF_PLOT_custom_widths_p_t	**custom_widths**	Output	default custom widths

---

UF_PLOT_ask_default_job_name (view source)

Defined in: uf_plot.h

Overview
Returns the default job name. The name might include the part name, the user name, or a descriptive string, according to job name preferences specified in the customer defaults file. If the specified drawing sheet tag is not NULL_TAG, the drawing sheet name is appended to the end of the job name. The returned job name can be used for constructing file names and other purposes.

The name is returned (such as can be constructed) even if there are errors. However, no name will be returned if the drawing sheet is not in the displayed part.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

```
int UF_PLOT_ask_default_job_name
(
    tag_t drawing_sheet,
    char * * job_name
)
```

tag_t	drawing_sheet	Input	If not NULL_TAG, the name of this drawing sheet is appended to the end of the job name
char * *	job_name	Output to UF_*free*	String with job name. User must free with UF_free()

UF_PLOT_ask_default_job_options (view source)

Defined in: uf_plot.h

Overview
Returns the default plot job option settings.

Environment
Internal and External

See Also
UF_PLOT_job_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

```
int UF_PLOT_ask_default_job_options
(
    UF_PLOT_job_options_p_t job_options
)
```

UF_PLOT_job_options_p_t	job_options	Output	Non-null pointer to a job options data structure.

UF_PLOT_ask_default_printer_and_profile (view source)

Defined in: uf_plot.h

Overview

Returns the name of the default printer and default profile for the current
printer group. Both arrays must be freed with UF_free.

Environment

Internal and External

History

Originally released in NX3.0.

Required License(s)

gateway

```
int UF_PLOT_ask_default_printer_and_profile
(
    char * * printer,
    char * * profile
)
```

char * *	**printer**	Output to UF_*free*	The default printer in the current printer group. Must be freed with UF_free()
char * *	**profile**	Output to UF_*free*	The default profile in the current printer group. Must be freed with UF_free()

UF_PLOT_ask_drawing_sheet_colors (view source)

Defined in: uf_plot.h

Overview

Returns the current custom colors for the drawing sheet. If no
custom colors are saved for the specified drawing sheet an error is returned.

Environment

Internal and External

See Also

UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History

Originally released in NX3.0.

Required License(s)

gateway

```
int UF_PLOT_ask_drawing_sheet_colors
(
```

tag_t drawing_sheet,
UF_PLOT_custom_colors_p_t custom_colors
)

tag_t	drawing_sheet	Input	tag of the sheet in question
UF_PLOT_custom_colors_p_t	custom_colors	Output	Pointer to the custom colors used in the drawing sheet.

UF_PLOT_ask_drawing_sheet_widths (view source)

Defined in: uf_plot.h

Overview
Returns the current custom widths for the drawing sheet. If no custom widths are saved for the specified drawing sheet an error is returned.

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_drawing_sheet_widths
(
tag_t drawing_sheet,
UF_PLOT_custom_widths_p_t custom_widths
)

tag_t	drawing_sheet	Input	tag of the sheet in question
UF_PLOT_custom_widths_p_t	custom_widths	Output	Pointer to the custom widths used in the drawing sheet.

UF_PLOT_ask_plot_layout_extents (view source)

Defined in: uf_plot.h

Overview
Returns the total bounds of the plot layout, the lower-left and upper-right corners of the smallest rectangle that encloses all plots, in millimeters or inches as indicated by the units parameter.

Environment

Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_plot_layout_extents
(
    UF_PLOT_units_t units,
    UF_PLOT_extents_p_t extents
)

UF_PLOT_units_t	**units**	Input	UF_PLOT_MILLIMETERS - the extents are returned in millimeters. UF_PLOT_INCHES - the extents are returned in inches
UF_PLOT_extents_p_t	**extents**	Output	The rectangular bounds of the plot in the layout.

UF_PLOT_ask_printer_groups (view source)

Defined in: uf_plot.h

Overview
Returns the printer groups if the printer group list file exists.
Otherwise, returns zero printer groups.

More information about the Printer Group List File is available under
the Printer Administration section in the Gateway Help documentation.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_printer_groups
(
    int * num_printer_groups,
    UF_PLOT_printer_group_p_t * printer_groups
)

int *	**num_printer_groups**	Output	Number of printer groups
UF_PLOT_printer_group_p_t *	**printer_groups**	Output to UF_*free*	Printer groups array. Must be freed with UF_free()

UF_PLOT_ask_printer_names (view source)

Defined in: uf_plot.h

Overview
Returns the names of the printers for the current printer group.
Each printer name in the array must be freed with UF_free, and the array of
printer names must also be freed with UF_free. NULL is returned if
there are no printers.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_printer_names
(
    int * num_printers,
    char * * * printers
)

int *	num_printers	Output	Number of printers in the current printer group.
char * * *	printers	Output to UF_*free*	Names of the printers in the current printer group. Each name and the array of names must be freed with UF_free()

UF_PLOT_ask_profile_names (view source)

Defined in: uf_plot.h

Overview
Returns an allocated array of the profile names associated with the
given printer in the current printer group. Each profile name in the array
must be freed with UF_free, and the array of profile names must also be freed
with UF_free.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_profile_names
(
    const char * printer,
    int * num_profiles,
    char * * * profiles
)

const char *	**printer**	Input	The name of a printer in the current printer group
int *	**num_profiles**	Output	The number of profiles associated with the given printer.
char * * *	**profiles**	Output to UF_*free*	The profile names associated with the given printer in the current group. Each name and the array of names must be freed with UF_free()

UF_PLOT_ask_session_banner_options (view source)

Defined in: uf_plot.h

Overview
Returns the current banner option settings for the session.

Environment
Internal and External

See Also
UF_PLOT_banner_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_session_banner_options
(
    UF_PLOT_banner_options_p_t banner_options
)

UF_PLOT_banner_options_p_t	**banner_options**	Output	Non-null pointer to a banner options data structure.

UF_PLOT_ask_session_custom_colors (view source)

Defined in: uf_plot.h

Overview

Returns the current plotting custom colors for the session.

Environment
Internal and External

See Also
UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History
Originally released in NX3.0.

Required License(s)
gateway

```
int UF_PLOT_ask_session_custom_colors
(
    UF_PLOT_custom_colors_p_t custom_colors
)
```

UF_PLOT_custom_colors_p_t	custom_colors	Output	Pointer to the custom colors used in the session.

UF_PLOT_ask_session_custom_widths *(view source)*

Defined in: uf_plot.h

Overview
Returns the current plotting custom widths for the session.

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

```
int UF_PLOT_ask_session_custom_widths
(
    UF_PLOT_custom_widths_p_t custom_widths
)
```

UF_PLOT_custom_widths_p_t	custom_widths	Output	current session widths

UF_PLOT_ask_session_job_options *(view source)*

Defined in: uf_plot.h

Overview
Returns the current plot job option settings for the session.

Environment
Internal and External

See Also
UF_PLOT_job_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_ask_session_job_options
(
    UF_PLOT_job_options_p_t job_options
)

UF_PLOT_job_options_p_t	**job_options**	Output	Non-null pointer to a job options data structure.

UF_PLOT_clear_plot_layout (view source)

Defined in: uf_plot.h

Overview
Removes all plots from the plot layout, leaving it empty.
NOTE - This routine is unnecessary after a successful call to
UF_PLOT_save_cgm_for_plot_layout or UF_PLOT_print_plot_layout as they
automatically clear the plot layout upon successful execution.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_clear_plot_layout
(
    void
)

UF_PLOT_compare_ughpgl_files (view source)

Defined in: uf_plot.h

Overview

Compares the lines created by plotter pen movements in two HPGL plot files created in NX, and returns a resulting plot file. The resulting plot file shows the lines which are the same and those which are different between the plot files compared.

Environment

Internal and External

History

This function was originally released in V14.0.

Required License(s)

gateway

int UF_PLOT_compare_ughpgl_files
(
    char * first_plot,
    char * second_plot,
    UF_PLOT_ughpgl_cmp_options_p_t compare_options,
    char * result_plot,
    UF_PLOT_diff_cmp_status_t * comparison_result
)

char *		**first_plot**	Input	Name of the first plot file (256 char max)
char *		**second_plot**	Input	Name of the second plot file (256 char max)
UF_PLOT_ughpgl_cmp_options_p_t		**compare_options**	Input	Indicates options considered during comparison of plots.
char *		**result_plot**	Input	Name of resulting plot file. If created, this resulting plot file will contain the overlay of both plots. Lines that are the same in both plots will be in one color, lines that are in the first plot only will be in a second color, and lines that are in the second plot only will be in a third color.
UF_PLOT_diff_cmp_status_t *		**comparison_result**	Output	Comparison results: UF_PLOT_CMP_NO_DIFF_FOUND UF_PLOT_CMP_DIFF_FOUND

UF_PLOT_convert_custom_widths (view source)

Defined in: uf_plot.h

Overview

Converts numeric values stored in the UF_PLOT_custom_widths_t structure to the specified units, and then updates the units field of the structure. This function can be called to ensure custom widths are expressed in appropriate units after obtaining the widths from a drawing sheet or WDF.

Environment

Internal and External

See Also

UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History

Originally released in NX3.0.

Required License(s)

gateway

int UF_PLOT_convert_custom_widths
(
    UF_PLOT_units_t units,
    UF_PLOT_custom_widths_p_t custom_widths
)

UF_PLOT_units_t	**units**	Input	UF_PLOT_MILLIMETERS - the custom width data is converted to millimeters. UF_PLOT_INCHES - the custom width is converted to inches
UF_PLOT_custom_widths_p_t	**custom_widths**	Input / Output	custom widths data structure to convert

UF_PLOT_convert_file (view source)

Defined in: uf_plot.h

Overview

Parses the indicated CGM or TIFF file, converts the CGM or TIFF data to the graphics format indicated by the output_format parameter, and saves the converted data in a file with the specified name, appending an appropriate suffix if necessary. If a file of the same name already exists, it is overwritten. Note that this call uses the plotting system to do the conversion so the plotting system must be configured correctly. In particular the graphics format that you choose needs to have proper defaults in the NX Print Print Setup page. In particular the Pixel Dimensions must be non-zero.

Starting in NX 5.0.2, the TIFF conversion is done by calling the cgm2tiff program released in the NXPLOT kit. The resolution for this conversion is forced to 72 DPI. You can force the old behavior (which uses the plotting system) by setting the environment variable UGII_PLOT_CONVERT_OLD_BEHAVIOR.

By far the best way to do a TIFF conversion will be to bypass this call completely, and directly call the cgm2tiff program to do the conversion once you have created a CGM file. The cgm2tiff program has options so that you can control the resolution, scale and rotation of the TIFF file.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_convert_file
(
    const char * cgm_or_tiff_file_name,
    UF_PLOT_format_t output_format,
    const char * output_file_name
)

const char *	cgm_or_tiff_file_name	Input	Name of CGM or TIFF file to convert
UF_PLOT_format_t	output_format	Input	Format used to create the output file
const char *	output_file_name	Input	Name of converted file

UF_PLOT_delete_drawing_sheet_colors (view source)

Defined in: uf_plot.h

Overview
Deletes custom colors saved for the specified drawing sheet. An error code is returned if the drawing sheet has no custom colors.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_delete_drawing_sheet_colors
(
    tag_t drawing_sheet
)

tag_t	drawing_sheet	Input	Colors will be deleted from this drawing

UF_PLOT_delete_drawing_sheet_widths (view source)

Defined in: uf_plot.h

Overview

Deletes drawing sheet widths saved for the specified drawing sheet. An error code is returned if the drawing sheet has no widths.

Environment

Internal and External

History

Originally released in NX3.0.

Required License(s)

gateway

int UF_PLOT_delete_drawing_sheet_widths
(
    tag_t drawing_sheet
)

tag_t	drawing_sheet	Input	Widths will be deleted from this drawing

---

UF_PLOT_has_drawing_sheet_colors *(view source)*

Defined in: uf_plot.h

Overview

Returns whether or not custom colors are saved for the specified drawing sheet.

Environment

Internal and External

History

Originally released in NX3.0.

Required License(s)

gateway

int UF_PLOT_has_drawing_sheet_colors
(
    tag_t drawing_sheet,
    logical * drawing_sheet_has_colors
)

tag_t	drawing_sheet	Input	tag of sheet to check
logical *	drawing_sheet_has_colors	Output	TRUE - drawing sheet colors are saved for this drawing sheet. FALSE - drawing sheet colors are not saved for this drawing sheet.

UF_PLOT_has_drawing_sheet_widths (view source)

Defined in: uf_plot.h

Overview
Returns whether or not custom widths are saved for the specified drawing sheet.

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_has_drawing_sheet_widths
(
    tag_t drawing_sheet,
    logical * drawing_sheet_has_widths
)

tag_t	drawing_sheet	Input	tag of sheet to check
logical *	drawing_sheet_has_widths	Output	TRUE - drawing sheet widths are saved for this drawing sheet. FALSE - drawing sheet widths are not saved for this drawing sheet.

UF_PLOT_print (view source)

Defined in: uf_plot.h

Overview
Prints a plot job. The drawing sheet provided must be in the displayed part.

Environment
Internal and External

See Also
UF_PLOT_job_options_t
UF_PLOT_banner_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_print
(
　　tag_t drawing_sheet,
　　UF_PLOT_job_options_p_t job_options,
　　const char * job_name,
　　UF_PLOT_banner_options_p_t banner_options,
　　const char * printer,
　　const char * profile,
　　int num_copies
)

tag_t	**drawing_sheet**	Input	The plot job represents this drawing sheet. If NULL_TAG, the plot job represents the current display image.
UF_PLOT_job_options_p_t	**job_options**	Input	Specifies plot job options. If NULL, current session job options are used instead. If non-NULL, call UF_PLOT_ask_default_job_options or UF_PLOT_ask_session_job_options to initialize the structure before setting structure fields. Current session job options are not modified by structure values.
const char *	**job_name**	Input	Name of job to print.
UF_PLOT_banner_options_p_t	**banner_options**	Input	Specifies banner options. If NULL, current session banner options are used instead. If non-NULL, call UF_PLOT_ask_default_banner_options or UF_PLOT_ask_session_banner_options to initialize the structure before setting structure fields. Current session banner options are not modified by structure values.
const char *	**printer**	Input	Specifies the name of the printer on which the job is to be printed. If NULL, the default printer is used.
const char *	**profile**	Input	Specifies the name of the desired profile for the printer. If NULL, the default profile is used.
int	**num_copies**	Input	Number of copies to print.

UF_PLOT_print_file (view source)

Defined in: uf_plot.h

Overview

　　Prints the CGM or TIFF file with the specified name.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_print_file
(
   const char * filename,
   const char * printer,
   const char * profile,
   int num_copies
)

const char *	**filename**	Input	Name of CGM or TIFF file to print
const char *	**printer**	Input	Specifies the name of the printer on which the job is to be printed. If NULL, the default printer is used.
const char *	**profile**	Input	Specifies the name of the desired profile for the printer. If NULL, the default profile is used.
int	**num_copies**	Input	Number of copies to print.

UF_PLOT_print_plot_layout (view source)

Defined in: uf_plot.h

Overview
Prints the plot layout.

Environment
Internal and External

See Also
UF_PLOT_banner_options_t

Returns
UF_PLOT_ERR_EMPTY_LAYOUT if the plot layout is empty.

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_print_plot_layout
(
   const char * job_name,
   UF_PLOT_banner_options_p_t banner_options,

```
      const char * printer,
      const char * profile,
      int num_copies
  )
```

const char *	job_name	Input	Name for the plot job
UF_PLOT_banner_options_p_t	banner_options	Input	Specifies banner options. If NULL, current session banner options are used instead. If non-NULL, call UF_PLOT_ask_default_banner_options or UF_PLOT_ask_session_banner_options to initialize the structure before setting structure fields. Current session banner options are not modified by structure values.
const char *	printer	Input	Specifies the name of the printer on which the job is to be printed. If NULL, the default printer is used.
const char *	profile	Input	Specifies the name of the desired profile for the printer. If NULL, the default profile is used.
int	num_copies	Input	Number of copies to print.

UF_PLOT_read_custom_colors_from_cdf (view source)

Defined in: uf_plot.h

Overview
Initializes a UF_PLOT_custom_colors_t structure according to color data stored in the specified CDF.

Environment
Internal and External

See Also
UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History
Originally released in NX3.0.

Required License(s)
gateway

```
  int UF_PLOT_read_custom_colors_from_cdf
  (
      const char * cdf_name,
      UF_PLOT_custom_colors_p_t custom_colors
  )
```

const char *	**cdf_name**	Input	Name of CDF to use
UF_PLOT_custom_colors_p_t	**custom_colors**	Output	Color data found in the CDF

UF_PLOT_read_custom_widths_from_wdf (view source)

Defined in: uf_plot.h

Overview
Initializes a UF_PLOT_custom_widths_t structure according to width data stored in the specified WDF.

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

```
int UF_PLOT_read_custom_widths_from_wdf
(
    const char * wdf_name,
    UF_PLOT_custom_widths_p_t custom_widths
)
```

const char *	**wdf_name**	Input	Name of WDF to use
UF_PLOT_custom_widths_p_t	**custom_widths**	Output	Width data found in the WDF

UF_PLOT_save_cgm (view source)

Defined in: uf_plot.h

Overview
Saves a plot job in a CGM file with the specified name. The Suffix .cgm is appended to the name if it is not present. If a CGM file of the same name already exists, it is overwritten. The drawing sheet provided must be in the displayed part.

Environment
Internal and External

See Also
UF_PLOT_job_options_t
UF_PLOT_banner_options_t

History

Originally released in NX3.0.

Required License(s)

gateway

int UF_PLOT_save_cgm
(
   tag_t drawing_sheet,
   UF_PLOT_job_options_p_t job_options,
   const char * job_name,
   UF_PLOT_banner_options_p_t banner_options,
   const char * cgm_file_name
)

tag_t	**drawing_sheet**	Input	The plot job represents this drawing sheet. If NULL_TAG, the plot job represents the current display image.
UF_PLOT_job_options_p_t	**job_options**	Input	Specifies plot job options. If NULL, current session job options are used instead. If non-NULL, call UF_PLOT_ask_default_job_options or UF_PLOT_ask_session_job_options to initialize the structure before setting structure fields. Current session job options are not modified by structure values.
const char *	**job_name**	Input	Name for the plot job
UF_PLOT_banner_options_p_t	**banner_options**	Input	Specifies banner options. If NULL, current session banner options are used instead. If non-NULL, call UF_PLOT_ask_default_banner_options or UF_PLOT_ask_session_banner_options to initialize the structure before setting structure fields. Current session banner options are not modified by structure values.
const char *	**cgm_file_name**	Input	CGM file name

UF_PLOT_save_cgm_for_plot_layout (view source)

Defined in: uf_plot.h

Overview

Saves the plot layout in a CGM file with the specified name. Note that the suffix .cgm is appended to the name if not present. If a CGM file of the same name already exists, it is overwritten.

Environment
Internal and External

See Also
UF_PLOT_banner_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_save_cgm_for_plot_layout
(
const char * job_name,
UF_PLOT_banner_options_p_t banner_options,
const char * cgm_file_name
)

const char *	**job_name**	Input	Name for the plot job
UF_PLOT_banner_options_p_t	**banner_options**	Input	Specifies banner options. If NULL, current session banner options are used instead. If non-NULL, call UF_PLOT_ask_default_banner_options or UF_PLOT_ask_session_banner_options to initialize the structure before setting structure fields. Current session banner options are not modified by structure values.
const char *	**cgm_file_name**	Input	CGM file name

UF_PLOT_set_drawing_sheet_colors (view source)

Defined in: uf_plot.h

Overview
Saves the specified custom colors for the indicated drawing sheet. Call one of the following functions to initialize the UF_PLOT_custom_colors_t structure before setting structure fields.

UF_PLOT_ask_default_custom_colors
UF_PLOT_ask_session_custom_colors
UF_PLOT_ask_drawing_sheet_colors
UF_PLOT_read_custom_colors_from_cdf

Environment
Internal and External

See Also
UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History

Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_set_drawing_sheet_colors
(
    tag_t drawing_sheet,
    UF_PLOT_custom_colors_p_t custom_colors
)

tag_t	drawing_sheet	Input	The colors will be stored with this drawing sheet
UF_PLOT_custom_colors_p_t	custom_colors	Input	Colors to store with the drawing sheet

---

UF_PLOT_set_drawing_sheet_widths (view source)

Defined in: uf_plot.h

Overview
Saves the specified widths for the indicated drawing sheet. Call one of the following functions to initialize the UF_PLOT_custom_widths_t structure before setting structure fields.

UF_PLOT_ask_default_custom_widths
UF_PLOT_ask_session_custom_widths
UF_PLOT_ask_drawing_sheet_widths
UF_PLOT_read_custom_widths_from_wdf

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_set_drawing_sheet_widths
(
    tag_t drawing_sheet,
    UF_PLOT_custom_widths_p_t custom_widths
)

tag_t	drawing_sheet	Input	The widths will be stored with this drawing sheet
UF_PLOT_custom_widths_p_t	custom_widths	Input	Width to store with the drawing sheet

UF_PLOT_set_printer_group (view source)

Defined in: uf_plot.h

Overview
Sets the current printer group

The jobs_dir and home_dir parameters can be NULL, in which case the default
jobs and home directories are used. If group_dir specifies a printer group
in the printer group list file, however, then jobs_dir and home_dir should
be set to the values returned by UF_PLOT_ask_printer_groups for group_dir.

If the jobs and home directories exist, they must be writable. If they do
not exist, it must be possible to create them.

If the jobs_dir is passed a string with a trailing backslash, the directory
will not be created.

Environment
Internal and External

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_set_printer_group
(
    const char * group_dir,
    const char * jobs_dir,
    const char * home_dir
)

const char *	**group_dir**	Input	Group directory
const char *	**jobs_dir**	Input	Jobs directory
const char *	**home_dir**	Input	Home directory

UF_PLOT_set_session_banner_options (view source)

Defined in: uf_plot.h

Overview
Modifies the current banner option settings for the session. Call
UF_PLOT_ask_default_banner_options or UF_PLOT_ask_session_banner_options
to initialize the UF_PLOT_banner_options_t structure before setting
structure fields.

Environment

Internal and External

See Also
UF_PLOT_banner_options_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_set_session_banner_options
(
    const UF_PLOT_banner_options_p_t banner_options
)

const UF_PLOT_banner_options_p_t	**banner_options**	Input	banner options data structure

UF_PLOT_set_session_custom_colors *(view source)*

Defined in: uf_plot.h

Overview
Modifies the current plotting custom colors for the session. Call
one of the following functions to initialize the UF_PLOT_custom_colors_t
structure before setting structure fields.

UF_PLOT_ask_default_custom_colors
UF_PLOT_ask_session_custom_colors
UF_PLOT_ask_drawing_sheet_colors
UF_PLOT_read_custom_colors_from_cdf

Environment
Internal and External

See Also
UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_set_session_custom_colors
(
    UF_PLOT_custom_colors_p_t custom_colors
)

UF_PLOT_custom_colors_p_t	**custom_colors**	Input	Custom colors data structure to be used for the current session

UF_PLOT_set_session_custom_widths (view source)

Defined in: uf_plot.h

Overview
Modifies the current plotting custom widths for the session. Call one of the following functions to initialize the UF_PLOT_custom_widths_t structure before setting structure fields.

UF_PLOT_ask_default_custom_widths
UF_PLOT_ask_session_custom_widths
UF_PLOT_ask_drawing_sheet_widths
UF_PLOT_read_custom_widths_from_wdf

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

```
int UF_PLOT_set_session_custom_widths
(
    UF_PLOT_custom_widths_p_t custom_widths
)
```

UF_PLOT_custom_widths_p_t	**custom_widths**	Input	custom widths to set for the current session

UF_PLOT_set_session_job_options (view source)

Defined in: uf_plot.h

Overview
Modifies the current plot job option settings for the session. Call UF_PLOT_ask_default_job_options or UF_PLOT_ask_session_job_options to initialize the UF_PLOT_job_options_t structure before setting structure fields.

Environment
Internal and External

See Also
UF_PLOT_job_options_t

History

Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_set_session_job_options
(
    UF_PLOT_job_options_p_t job_options
)

UF_PLOT_job_options_p_t	**job_options**	Input	Pointer to the job options you wish to set.

UF_PLOT_set_ughpgl_small_tol (view source)

Defined in: uf_plot.h

Overview
Sets the tolerance which is used when determining if a vector is ignorable. If a vector is less than or equal to the given length, then the line may be ignored if it is not matched.

Environment
Internal and External

Required License(s)
gateway

int UF_PLOT_set_ughpgl_small_tol
(
    double small_tolerance,
    int units
)

double	**small_tolerance**	Input	The maximum length of a vector that may be ignored.
int	**units**	Input	Metric of English units.

UF_PLOT_set_ughpgl_tol (view source)

Defined in: uf_plot.h

Overview
Sets the tolerance which is used when comparing non-overlapping vectors between the first and second plot file. When the vectors compared are a distance apart of less than or equal to the shift tolerance, they are checked off as common vectors and not as unique vectors.

Environment

Internal and External

Required License(s)
gateway

int UF_PLOT_set_ughpgl_tol
(
    double shift_tolerance,
    int units
)

double	**shift_tolerance**	Input	The amount of shift which will be allowed between two non-overlapping pair of vectors from the first and second plot file. If the vectors are within the shift amount, they are then considered one and the same.
int	**units**	Input	Metric of English units.

UF_PLOT_write_custom_colors_to_cdf (view source)

Defined in: uf_plot.h

Overview
Saves the custom colors in a CDF with the specified name.
Note that the suffix .cdf is appended to the name if not present.
If a CDF of the same name already exists it is overwritten.

Call one of the following functions to initialize the UF_PLOT_custom_colors_t
structure before setting structure fields.

UF_PLOT_ask_default_custom_colors
UF_PLOT_ask_session_custom_colors
UF_PLOT_ask_drawing_sheet_colors
UF_PLOT_read_custom_colors_from_cdf

Environment
Internal and External

See Also
UF_CGM_custom_colors_t AKA UF_PLOT_custom_colors_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_write_custom_colors_to_cdf
(
    const char * cdf_name,
    UF_PLOT_custom_colors_p_t custom_colors
)

const char *	**cdf_name**	Input	Name of CDF to use
UF_PLOT_custom_colors_p_t	**custom_colors**	Input	Color data to write in the CDF

UF_PLOT_write_custom_widths_to_wdf (view source)

Defined in: uf_plot.h

Overview
Saves the custom width data in a WDF with the specified name.
Note that the suffix .wdf is appended to the name if not present.
If a WDF of the same name already exists it is overwritten.

Call one of the following functions to initialize the UF_PLOT_custom_widths_t
structure before setting structure fields.

UF_PLOT_ask_default_custom_widths
UF_PLOT_ask_session_custom_widths
UF_PLOT_ask_drawing_sheet_widths
UF_PLOT_read_custom_widths_from_wdf

Environment
Internal and External

See Also
UF_CGM_custom_widths_t AKA UF_PLOT_custom_widths_t

History
Originally released in NX3.0.

Required License(s)
gateway

int UF_PLOT_write_custom_widths_to_wdf
(
    const char * wdf_name,
    UF_PLOT_custom_widths_p_t custom_widths
)

const char *	**wdf_name**	Input	Name of WDF to use
UF_PLOT_custom_widths_p_t	**custom_widths**	Input	Width data to write in the WDF