

UF_PROCESS_AID_ask_children_features [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

Given a process aid feature set, this function will return its children feature set tags. This means that for a datum location feature, this function will return the datum point feature set tag. For a datum point, this function will return the certification point feature set tag

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_children_features
(
    tag_t feature_set,
    int * num_children,
    tag_p_t * children
)
```

<code>tag_t</code>	<code>feature_set</code>	Input	tag of the process aid feature set
<code>int *</code>	<code>num_children</code>	Output	number of children features
<code>tag_p_t *</code>	<code>children</code>	Output to UF_*free*	tags of the children features. This array must be freed by calling UF_free

UF_PROCESS_AID_ask_datum_objects [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

Given the datum feature set tag, this function returns the tags of the datum points, datum vectors and the objects involved in the datum

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_datum_objects
(
    tag_t feature_set,
    int * num_dat_points,
    tag_p_t * datum_point,
    int * num_dat_vectors,
    tag_p_t * datum_vector,
    int * num_sets,
    int ** n_objects_in_each_set,
    tag_p_t * objects
)
```

)

tag_t	feature_set	Input	tag of the datum location feature, datum point, certification point or measurement point feature
int *	num_dat_points	Output	number of datum points in the given feature set
tag_p_t *	datum_point	Output to UF_*free*	object tags of the datum point in the given feature set. This must be freed using UF_free.
int *	num_dat_vectors	Output	number of datum vectors in the given feature set
tag_p_t *	datum_vector	Output to UF_*free*	object tags of the datum vector in the given feature set. This must be freed using UF_free.
int *	num_sets	Output	number of sets of objects
int **	n_objects_in_each_set	Output to UF_*free*	number of objects in each set. Use UF_free to free this
tag_p_t *	objects	Output to UF_*free*	tags of the objects involved in the datum feature. Use the function UF_free to free this

UF_PROCESS_AID_ask_datums_in_part [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

This function returns all the datum objects of the specified types in the part of assembly. This function filters the datum objects by type.

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_datums_in_part
(
    tag\_t part_tag,
    UF_PROCESS_AID_types_t feat_type,
    uf\_list\_p\_t \* feature_sets
)
```

tag_t	part_tag	Input	The specified part in assembly to query
UF_PROCESS_AID_types_t	feat_type	Input	The datum type filter to apply to this query. If no filtering is

			desired, then input UF_PROCESS_AID_ALL_TYPES
<code>uf_list_p_t *</code>	<code>feature_sets</code>	Output to UF_*free*	The list containing the tags of the found process aid objects. If datum_type is UF_PROCESS_AID_ALL_TYPES, then all of the datum objects in the part will be returned. If any other filter option, then only the objects of the specified types are returned. returns NULL if no process aid object found. This parameter must be freed with UF_MODL_delete_list

UF_PROCESS_AID_ask_link_objects [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

This function retrieves all the linked/extracted objects for the given object (prototype/linked/extracted/occurrence). if the objects retrieved are further linked/extracted, the function will get all those recursively.

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_link_objects
(
    tag_t object,
    tag_p_t * linked_objects,
    int * linked_object_count
)
```

<code>tag_t</code>	<code>object</code>	Input	object tag
<code>tag_p_t *</code>	<code>linked_objects</code>	Output to UF_*free*	all the linked/extracted objects This must be freed with UF_free.
<code>int *</code>	<code>linked_object_count</code>	Output	number of linked/extracted objects

UF_PROCESS_AID_ask_parent_feature [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

Given a process aid feature set, this function will return its parent feature set tag. This means that for a certification point, this function will return the datum point feature set tag. For a datum point, this function will return

the datum location feature set tag

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_parent_feature
(
    tag_t feature_set,
    tag_t * parent_datum
)
```

tag_t	feature_set	Input	tag of the process aid feature set
tag_t *	parent_datum	Output	tag of the feature set of the parent datum

UF_PROCESS_AID_ask_section_of_datum [\(view source\)](#)

Defined in: uf_process_aid.h

Overview

Given the datum feature set tag, this function gives the array of section planes used to create the datum feature.

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_section_of_datum
(
    tag_t datum_feat,
    int * num_sections,
    tag_p_t * sec_planes
)
```

tag_t	datum_feat	Input	Tag of the Datum object Feature. Possible feature types are DATUM_LOCATION, MEASUREMENT_LOCATION & HEM_VECTOR
int *	num_sections	Output	Number of Section planes
tag_p_t *	sec_planes	Output to UF_*free*	Array of Section planes. Must free with UF_free

UF_PROCESS_AID_ask_source_object [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

This function retrieves the source object for the given linked/extracted object. This will give just one level up parent/source if `<is_recurse>` is passed as `FALSE`. Set `<is_recurse>` to `TRUE`, to retrieve the source information recursively, ie. in case of the linked/extracted objects being further linked/extracted.

If any of the files are partially open or fully closed, that should be open to get the required information, and can not be opened by this function due to a file opening error, then the function will give the file name with respective returned error code. It is the responsibility of the user to open the given file before calling the function again.

Environment

Internal and External

History

V18.0

```
int UF_PROCESS_AID_ask_source_object
(
    tag_t object,
    logical is_recurse,
    tag_t * source_object,
    char ** file_to_open
)
```

<code>tag_t</code>	object	Input	linked/extracted object tag, whose source is to be retrieved
<code>logical</code>	is_recurse	Input	FALSE if required just one level up information of the source TRUE if need to search the source recursively
<code>tag_t *</code>	source_object	Output	source object tag retrieved, NULL in case of any error
<code>char * *</code>	file_to_open	Output to <code>UF_*free*</code>	file name, in case of opening error for this file. NULL if we were able to get the <code>source_object</code> . This must be freed by calling <code>UF_free</code> .

UF_PROCESS_AID_is_datum_object [\(view source\)](#)

Defined in: `uf_process_aid.h`

Overview

This function returns all the datum objects of specified types in the part of assembly. This function filters the datum objects by type.

Environment

Internal and External

History
V18.0

```
int UF_PROCESS_AID_is_datum_object
(
    tag_t object,
    logical * is_datum,
    UF_PROCESS_AID_types_p_t datum_type,
    tag_p_t feature_set_tag
)
```

tag_t	object	Input	tag of the object
logical *	is_datum	Output	TRUE if the body is a datum otherwise returns FALSE
UF_PROCESS_AID_types_p_t	datum_type	Output	type of datum object
tag_p_t	feature_set_tag	Output	feature set tag of the datum object

UF_PROCESS_AID_populate_attr_list (view source)

Defined in: uf_process_aid.h

Overview

This function gives the list of attributes for the process aid object

Environment

Internal and External

History
V18.0

```
int UF_PROCESS_AID_populate_attr_list
(
    tag_t feature_set,
    int * count,
    char *** list
)
```

tag_t	feature_set	Input	tag of the process aid feature set
int *	count	Output	number of attributes
char * * *	list	Output to UF_*free*	list of attributes. This array must be freed by calling UF_free_string_array

