UF_WELD_ask_body_id (view source)

Defined in: uf_weld.h

Overview
Gets all body tags of welds in a weld feature set.

Environment
Internal and External

See Also
UF_WELD_locate_welds2

History
Original release was in V16.0.1

```
int UF_WELD_ask_body_id
(
    tag_t feature_set_tag,
    tag_p_t * body_id,
    int * num_objects
)
```

tag_t	**feature_set_tag**	Input	Feature set tag of the weld
tag_p_t *	**body_id**	Output to UF_*free*	Array of body tags of welds. This must be freed by calling UF_free.
int *	**num_objects**	Output	Number of welds in the weld feature set.

UF_WELD_ask_connected_parts (view source)

Defined in: uf_weld.h

Overview
Gets the body tags of the connected parts for a weld feature set.

Environment
Internal and External

See Also
UF_WELD_locate_welds2

History
Original release was in V16.0.1

```
int UF_WELD_ask_connected_parts
(
    tag_t feature_set_tag,
    UF_WELD_conn_parts_info_p_t conn_info
)
```

tag_t	**feature_set_tag**	Input	Feature set tag of the weld

UF_WELD_conn_parts_info_p_t	**conn_info**	Output	UF_WELD_conn_parts_info_p_t. Must free ithe body tags using UF_free. Info of connected parts

---

UF_WELD_ask_groove_or_edge_guide (view source)

Defined in: uf_weld.h

Overview
Given a Groove or Edge weld tag, this function returns the guide curves for the weld. For all other types of welds refer to UF_WELD_ask_guide_curves.

Environment
Internal and External.

See Also
UF_WELD_ask_guide_curves

History
Originally released in v16.0.1

```
int UF_WELD_ask_groove_or_edge_guide
(
    tag_t weld_feat_tag,
    uf_list_p_t * guide_crv_cnt,
    uf_list_p_t * guide_curves
)
```

tag_t	**weld_feat_tag**	Input	tag of the weld feature, can be only Groove or Edge weld feature
uf_list_p_t *	**guide_crv_cnt**	Output to UF_*free*	tags of the first set of guide strings use UF_MODL_delete_list to free
uf_list_p_t *	**guide_curves**	Output to UF_*free*	tags of the second set of guide strings use UF_MODL_delete_list to free

---

UF_WELD_ask_guide_curves (view source)

Defined in: uf_weld.h

Overview
Given the feature set tag, this function returns the guide curves for all weld types except Groove and Edge welds. Note that guide curves are not returned if the input tag is a Plug or Slot weld.

Environment
Internal and External.

See Also
UF_WELD_ask_groove_or_edge_guide

History

Originally released in v16.0.1

int UF_WELD_ask_guide_curves
(
tag_t weld_feat_tag,
int * guide_crv_cnt,
tag_t * * guide_curves
)

tag_t	**weld_feat_tag**	Input	tag of the weld feature, can be either Fillet, Arc Spot, Resistance Spot, Resistance Seam, Bead, Tape, Dollop or Clinch
int *	**guide_crv_cnt**	Output	Number of guide curves
tag_t * *	**guide_curves**	Output to UF_*free*	tag of guide curves

---

UF_WELD_ask_linked_face_parent (view source)

Defined in: uf_weld.h

Overview
Given a face from a Linked or Extract feature returns the source occurrence or parent object

Environment
Internal and External

See Also
UF_WAVE_ask_link_source

History
Original release was in V16.0.1

int UF_WELD_ask_linked_face_parent
(
tag_t face_tag,
tag_p_t source_obj
)

tag_t	**face_tag**	Input	face tag of the LINKED_FACE feature
tag_p_t	**source_obj**	Output	Tag of the source object for the feature

---

UF_WELD_ask_linked_feat_source (view source)

Defined in: uf_weld.h

Overview

Given a Linked or Extract feature returns the source occurrence or parent object

Environment
Internal and External

See Also
UF_WAVE_ask_link_source

History
Original release was in V16.0.1

```
int UF_WELD_ask_linked_feat_source
(
    tag_t linked_feat_tag,
    tag_p_t source_obj
)
```

tag_t	**linked_feat_tag**	Input	Tag of the linked or extract feature
tag_p_t	**source_obj**	Output	Tag of the source object for the feature

---

UF_WELD_ask_number_of_welds (view source)

Defined in: uf_weld.h

Overview
Returns the number of welds in a weld feature set.

Environment
Internal and External

See Also
UF_WELD_locate_welds2

History
Original release was in V16.0.1

```
int UF_WELD_ask_number_of_welds
(
    tag_t feature_set_tag,
    int * num_of_welds
)
```

tag_t	**feature_set_tag**	Input	Feature set tag of weld
int *	**num_of_welds**	Output	Number of welds present in the weld feature set.

UF_WELD_ask_seam_weld_info (view source)

Defined in: uf_weld.h

Overview
Given the feature set tag, this function returns the tags of the seams in the feature set and the faces involved in the seam. Please note that this function works for seam weld and bead.

Environment
Internal and External.

History
Originally released in v16.0.1

```
int UF_WELD_ask_seam_weld_info
(
    tag_t seam_feature_set,
    int * seam_count,
    tag_p_t * seam_id,
    int * num_sets,
    int * * n_faces_in_each_set,
    tag_p_t * * set_of_faces
)
```

tag_t	**seam_feature_set**	Input	tag of the seam feature set
int *	**seam_count**	Output	count of the seams in the feature set
tag_p_t *	**seam_id**	Output to UF_*free*	tags of the seams in the feature set. Use UF_free to free this variable.
int *	**num_sets**	Output	number of sets of faces involved in the weld
int * *	**n_faces_in_each_set**	Output to UF_*free*	number of faces in each set. Must free using UF_free_string_array
tag_p_t * *	**set_of_faces**	Output to UF_*free*	tags of the faces involved in the weld. Use UF_free_string_array to free the array

---

UF_WELD_ask_segment_len_of_welds (view source)

Defined in: uf_weld.h

Overview
Returns the segment length of weld in a weld feature set. If the weld is a continuous weld then the total length of weld is returned.

Environment
Internal and External

See Also
UF_WELD_locate_welds2

History
Original release was in V16.0.1

int UF_WELD_ask_segment_len_of_welds
(
tag_t feature_set_tag,
double * seg_len
)

tag_t	**feature_set_tag**	Input	Feature set tag of weld
double *	**seg_len**	Output	Segment length of weld

UF_WELD_ask_spacing_of_welds (view source)

Defined in: uf_weld.h

Overview
Returns the spacing between welds in a weld feature set. If the weld is a single or continuous weld then the spacing returned is zero.

Environment
Internal and External

See Also
UF_WELD_locate_welds2

History
Original release was in V16.0.1

int UF_WELD_ask_spacing_of_welds
(
tag_t feature_set_tag,
double * spacing
)

tag_t	**feature_set_tag**	Input	Feature set tag of weld
double *	**spacing**	Output	Spacing between welds.

UF_WELD_ask_spot_face_data (view source)

Defined in: uf_weld.h

Overview
Given the spot (or clinch) feature set tag, this function will return the information regarding the weld. This function will work for resistance spot, arc spot and clinch.

Environment
Internal and External

See Also
UF_WELD_spot_info_t
UF_WELD_free_spot_data

History
Originally released in v16.0.1

int UF_WELD_ask_spot_face_data
(
tag_t spot_feature_set,
int * num_sets,
int * spot_count,
UF_WELD_spot_info_p_t * spot_info
)

tag_t	**spot_feature_set**	Input	tag of the spot feature set
int *	**num_sets**	Output	number of sets of faces in the spot weld
int *	**spot_count**	Output	number of spots in the feature set
UF_WELD_spot_info_p_t *	**spot_info**	Output to UF_*free*	pointer to the data structure which contains the spot weld information (see uf_weld_types.h) for the given feature set tag. Use UF_WELD_free_spot_data to free this pointer.

UF_WELD_ask_spot_face_info (view source)

Defined in: uf_weld.h

Overview
Given the spot (or clinch) feature set tag, this function will return the information regarding the weld. This function will work for resistance spot, arc spot and clinch.

Environment
Internal and External

See Also
UF_WELD_spot_data_t
UF_WELD_free_spot_info

History
Originally released in v18.0.4. Will be made obsolete in V20

int UF_WELD_ask_spot_face_info
(
tag_t spot_feature_set,
int * num_sets,
int * spot_count,
UF_WELD_spot_data_p_t * spot_info
)

tag_t	**spot_feature_set**	Input	tag of the spot feature set

int *	**num_sets**	Output	number of sets of faces in the spot weld
int *	**spot_count**	Output	number of spots in the feature set
UF_WELD_spot_data_p_t *	**spot_info**	Output to UF_*free*	pointer to the data structure which contains the spot weld information (see uf_weld_types.h) for the given feature set tag. Use UF_WELD_free_spot_info to free this pointer.

UF_WELD_ask_spot_weld_info (view source)

Defined in: uf_weld.h

Overview

Given the spot feature set tag, this function returns the tags of the spot points and the faces involved in the weld.

Environment

Internal and External

History

Originally Released in v16.0.1

```
int UF_WELD_ask_spot_weld_info
(
    tag_t spot_feature_set,
    tag_p_t top_body,
    int * spot_count,
    tag_p_t * spot_points,
    int * num_sets,
    int * * n_faces_in_each_set,
    tag_p_t * * set_of_faces
)
```

tag_t	**spot_feature_set**	Input	tag of the spot feature set
tag_p_t	**top_body**	Output	tag of the top body
int *	**spot_count**	Output	number of spots in the feature set
tag_p_t *	**spot_points**	Output to UF_*free*	feature tags of the spot points in the feature set. Use UF_free to free this variable
int *	**num_sets**	Output	number of sets of faces
int * *	**n_faces_in_each_set**	Output to UF_*free*	number of faces in each set. Must free using UF_free_string_array
tag_p_t * *	**set_of_faces**	Output to UF_*free*	tags of the faces involved in the weld. Use UF_free_string_array to free the array

---

UF_WELD_free_spot_data (view source)

Defined in: uf_weld.h

Overview
Frees the memory used for storing spot weld information

Environment
Internal and External.

See Also
UF_WELD_spot_info_t
UF_WELD_ask_spot_face_data

History
Originally released in v16.0.1

```
int UF_WELD_free_spot_data
(
    int spot_count,
    UF_WELD_spot_info_p_t * spot_info
)
```

int	**spot_count**	Input	number of spots in the spot feature set
UF_WELD_spot_info_p_t *	**spot_info**	Input	pointer to the data structure which contains the spot weld information

---

UF_WELD_free_spot_info (view source)

Defined in: uf_weld.h

Overview
Frees the memory used for storing spot weld information

Environment
Internal and External.

See Also
UF_WELD_spot_data_t
UF_WELD_ask_spot_face_info

History
Originally released in v18.0.4 . Will be made obsolete in V20

```
int UF_WELD_free_spot_info
(
    int spot_count,
    UF_WELD_spot_data_p_t * spot_info
)
```

int	**spot_count**	Input	number of spots in the spot feature set

UF_WELD_spot_data_p_t *	**spot_info**	Input	pointer to the data structure which contains the spot weld information

---

UF_WELD_is_object_weld (view source)

Defined in: uf_weld.h

Overview
Returns whether the input object is weld.

Environment
Internal and External

See Also
UF_WELD_ask_body_id

History
Original release was in V16.0.1

```
int UF_WELD_is_object_weld
(
    tag_t object,
    logical * is_weld,
    tag_p_t feature_set_tag
)
```

tag_t	**object**	Input	Tag of weld body
logical *	**is_weld**	Output	TRUE if the body is weld otherwise returns FALSE
tag_p_t	**feature_set_tag**	Output	Feature set tag of the weld body

---

UF_WELD_locate_welds2 (view source)

Defined in: uf_weld.h

Overview
To fetch an array of all weld objects in the specified assembly.
Optionally, filter the weld objects by weld type.
The weld_array must be freed using UF_free.
This replaces UF_WELD_locate_welds, which only returns legacy welds.

Environment
Internal and External

History
Originally released in NX 5.0

```
int UF_WELD_locate_welds2
(
```

```
    tag_t work_part,
    UF_WELD_feature_types_array types_array,
    int * count,
    tag_p_t * weld_array
)
```

tag_t	**work_part**	Input	The specified assembly to query
UF_WELD_feature_types_array	**types_array**	Input	An array of logicals to indicate which weld types to return. Use UF_WELD_INIT_TYPES_ARRAY(types_array,false) to initialize all to off. Use UF_WELD_INIT_TYPES_ARRAY(types_array,true) to get all weld types. To get a specific weld feature, use UF_WELD_feature_types_e to turn on a specific weld feature.
int *	**count**	Output	Pointer to the number of weld object which answer the query. This may be 0. This storage is not allocated by the function. Pass in a valid integer location If the count is not desired, pass in a NULL instead of a pointer
tag_p_t *	**weld_array**	Output to UF_*free*	The pointer in which to return the array containing the tags of the found weld_objects. If NULL is passed in instead of a pointer, then the array is not returned. Such an option might be used to simply obtain a count of the objects. If the pointer is returned as non_NULL, then the array must be freed by UF_free

---

UF_WELD_populate_attr_list (view source)

Defined in: uf_weld.h

Overview
Gets the attribute titles of weld belonging to a weld feature_set_tag.

Environment
Internal and External

See Also
UF_WELD_locate_welds2

History
Original release was in V16.0.1

```
int UF_WELD_populate_attr_list
(
    tag_t feature_set_tag,
    char * * * attribute_title,
    int * count
)
```

tag_t	**feature_set_tag**	Input	Feature set tag of the weld
char * * *	**attribute_title**	Output to UF_*free*	Attibute titles of the weld. This must be freed by calling UF_free_string_array.
int *	**count**	Output	Number of attributes of the weld.