

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

Defined in: `uf_surf_reg.h`

Overview

Gets the parameters used for a surface region feature.
Given a surface region tag, determines the `surf_reg_type` and the parameters for the given type in the `surf_reg_struct_ptr` structure.
See `UF_SURF_REG_free` for freeing the data structures allocated by this routine.

Environment

`surf_reg_type`

History

Original release was in V14.0.

```
int UF_SURF_REG_ask_parms
(
    tag_t surf_reg_tag,
    UF_SURF_REG_type_p_t surf_reg_type,
    UF_SURF_REG_data_structures_p_u surf_reg_struct_ptr
)
```

<code>tag_t</code>	<code>surf_reg_tag</code>	Input	Object identifier of the surface region feature.
<code>UF_SURF_REG_type_p_t</code>	<code>surf_reg_type</code>	Output	Type of Surface Region
<code>UF_SURF_REG_data_structures_p_u</code>	<code>surf_reg_struct_ptr</code>	Output to <code>UF_*free*</code>	Pointer to one of the surf reg data structures. Use <code>UF_SURF_REG_free</code> to deallocate memory when done.

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

Defined in: `uf_surf_reg.h`

Overview

Gets the type of surface region feature. Given a surface region tag, determines the `surf_reg_type`.

Environment

Internal and External

History

Original release was in V14.0.

```
int UF_SURF_REG_ask_type
(
    tag_t surf_reg_tag,
    UF_SURF_REG_type_p_t surf_reg_type
)
```

tag_t	surf_reg_tag	Input	Object identifier of the surface region feature.
UF_SURF_REG_type_p_t	surf_reg_type	Output	Type of Surface Region

UF_SURF_REG_create ([view source](#))

Defined in: `uf_surf_reg.h`

Overview

Creates a surface region feature. It uses one of the following defining types:

- gather faces on a body using a seed face and limiting progression by boundary faces and-or tangential edge angle.
- all faces on the body.
- explicitly selected faces on a body.
- gather the steep or non-steep faces on a body.

Return

`UF_SURF_REG_err_invalid_name`
`UF_SURF_REG_err_face_not_on_body`

Environment

Internal and External

History

Original release was in V14.0.

```
int UF_SURF_REG_create
(
    UF_SURF_REG_type_t surf_reg_type,
    UF_SURF_REG_data_structures_p_u surf_reg_struct_ptr,
    tag_p_t surf_reg_tag
)
```

UF_SURF_REG_type_t	surf_reg_type	Input	Type of Surface Region
UF_SURF_REG_data_structures_p_u	surf_reg_struct_ptr	Input	Pointer to one of the surf reg data structures.
tag_p_t	surf_reg_tag	Output	Object identifier of the surface region feature.

UF_SURF_REG_edit ([view source](#))

Defined in: `uf_surf_reg.h`

Overview

Edits a surface region feature. The "surf_reg_type" contains the type of surface region feature being edited. It indicates the type of parameters used in the "surf_reg_struct_ptr" structure.

Return

```
UF_SURF_REG_err_invalid_name
UF_SURF_REG_err_face_not_on_body
```

Environment

Internal and External

History

Original release was in V14.0.

```
int UF_SURF_REG_edit
(
    UF_SURF_REG_type_t surf_reg_type,
    UF_SURF_REG_data_structures_p_u surf_reg_struct_ptr,
    tag_t surf_reg_tag
)
```

UF_SURF_REG_type_t	surf_reg_type	Input	Type of Surface Region
UF_SURF_REG_data_structures_p_u	surf_reg_struct_ptr	Input	Pointer to one of the surface region data structures.
tag_t	surf_reg_tag	Input	Object identifier of the surface region feature.

UF_SURF_REG_free (view source)

Defined in: uf_surf_reg.h

Overview

Free the space allocated to a UF_SURF_REG_data_structures_p_u stucture.

Environment

Internal and External

History

Original release was in V14.0.

```
int UF_SURF_REG_free
(
    UF_SURF_REG_type_t surf_reg_type,
    UF_SURF_REG_data_structures_p_u surf_reg_struct_ptr
)
```

UF_SURF_REG_type_t	surf_reg_type	Input	Type of Surface Region
UF_SURF_REG_data_structures_p_u	surf_reg_struct_ptr	Input	Pointer to one of the surf reg data structures.