

## UF\_CAM\_avoidance\_type\_e [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_avoidance_type_t`
- `UF_CAM_avoidance_type_p_t`

### Data Members

`UF_CAM_avoidance_type_none`

`UF_CAM_avoidance_type_warning`

`UF_CAM_avoidance_type_stepover`

`UF_CAM_avoidance_type_lift`

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## UF\_CAM\_blank\_geom\_type\_e [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_blank_geom_type_t`

### Data Members

`UF_CAM_feature_geom_type`

`UF_CAM_geometry_geom_type`

`UF_CAM_facet_geom_type`

`UF_CAM_auto_block_type`

`UF_CAM_offset_from_part_type`

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## UF\_CAM\_boundary\_type\_e [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_boundary_type_t`
- `UF_CAM_boundary_type_p_t`

## Data Members

`UF_CAM_boundary_type_closed`

`UF_CAM_boundary_type_open`

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## UF\_CAM\_feedrate\_unit\_e [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_feedrate_unit_t`
- `UF_CAM_feedrate_unit_p_t`

## Data Members

`UF_CAM_feedrate_unit_none`

`UF_CAM_feedrate_unit_per_minute`

`UF_CAM_feedrate_unit_per_revolution`

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## UF\_CAM\_geom\_type\_e [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_geom_type_t`
- `UF_CAM_geom_type_p_t`

## Overview

The CAM geometry types.

## Data Members

`UF_CAM_part`

**UF\_CAM\_blank**

**UF\_CAM\_check**

**UF\_CAM\_trim**

**UF\_CAM\_cut\_area**

**UF\_CAM\_wall**

**UF\_CAM\_drive**

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## **UF\_CAM\_material\_side\_e** [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_material_side_t`
- `UF_CAM_material_side_p_t`

### **Data Members**

**UF\_CAM\_material\_side\_undefined**

**UF\_CAM\_material\_side\_in\_left**

Inside if the boundary is closed.  
Left side if the boundary is open.

**UF\_CAM\_material\_side\_out\_right**

Outside if the boundary is closed.  
Right side if the boundary is open.

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## **UF\_CAM\_opt\_stype\_cls\_e** [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_opt_stype_cls_t`

### **Overview**

These are the Object Parameter Template (OPT) subtype classes

## Data Members

### UF\_CAM\_OPT\_STYPE\_CLS\_SETUP

Setup

### UF\_CAM\_OPT\_STYPE\_CLS\_OPER

Operations

### UF\_CAM\_OPT\_STYPE\_CLS\_PROG

NC Program

### UF\_CAM\_OPT\_STYPE\_CLS\_TOOL

Machine Tools and Cutters

### UF\_CAM\_OPT\_STYPE\_CLS\_METHOD

Machining Method

### UF\_CAM\_OPT\_STYPE\_CLS\_GEOM

Geometry

### UF\_CAM\_OPT\_STYPE\_CLS\_LAST

Do not use

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## UF\_CAM\_PREF\_e [\(view source\)](#)

Defined in: `uf_cam_prefs.h`

Also known as:

- `UF_CAM_PREF_t`

## Overview

Public Typedefs

## Data Members

### UF\_CAM\_PREF\_blank\_geom\_color

integer

### UF\_CAM\_PREF\_blank\_geom\_type

integer

### UF\_CAM\_PREF\_check\_geom\_color

integer

### UF\_CAM\_PREF\_check\_geom\_type

integer

### UF\_CAM\_PREF\_clearance\_geom\_color

integer

### UF\_CAM\_PREF\_clsf\_decimal\_place

integer

### UF\_CAM\_PREF\_refresh\_bef\_path\_replay

logical

### UF\_CAM\_PREF\_collect\_instances

logical

**UF\_CAM\_PREF\_cut\_area\_geom\_color**

integer

**UF\_CAM\_PREF\_cut\_area\_geom\_type**

integer

**UF\_CAM\_PREF\_drive\_geom\_color**

integer

**UF\_CAM\_PREF\_generate\_instance**

logical

**UF\_CAM\_PREF\_info\_csys**

integer

**UF\_CAM\_PREF\_mcs\_link\_to\_rcs**

integer

**UF\_CAM\_PREF\_part\_geom\_color**

integer

**UF\_CAM\_PREF\_part\_geom\_type**

integer

**UF\_CAM\_PREF\_pause\_aft\_path**

logical

**UF\_CAM\_PREF\_refresh\_bef\_path\_generate**

logical

**UF\_CAM\_PREF\_relocate\_parameters**

logical

**UF\_CAM\_PREF\_run\_process\_assistant**

integer

**UF\_CAM\_PREF\_suspect\_bounding\_box\_color**

integer

**UF\_CAM\_PREF\_transform\_toolpath**

logical

**UF\_CAM\_PREF\_trim\_geom\_color**

integer

**UF\_CAM\_PREF\_uncut\_geom\_color**

integer

**UF\_CAM\_PREF\_unlink\_instance**

logical

**UF\_CAM\_PREF\_update\_post\_from\_tool**

integer

**UF\_CAM\_PREF\_force\_load\_and\_turret\_tool**

integer

**UF\_CAM\_PREF\_use\_customized\_interface**

logical

**UF\_CAM\_PREF\_visible\_scrollable\_items**

integer

**UF\_CAM\_PREF\_visualize\_tool\_display\_color**

integer

**UF\_CAM\_PREF\_visualize\_gouge\_color**

integer

**UF\_CAM\_PREF\_visualize\_collision\_color**

integer

**UF\_CAM\_PREF\_visualize\_excess\_material\_color**

integer

**UF\_CAM\_PREF\_visualize\_auto\_block\_color**

integer

**UF\_CAM\_PREF\_visualize\_DMR\_tool1\_color**

integer

**UF\_CAM\_PREF\_visualize\_DMR\_tool2\_color**

integer

**UF\_CAM\_PREF\_visualize\_DMR\_tool3\_color**

integer

**UF\_CAM\_PREF\_visualize\_DMR\_tool4\_color**

integer

**UF\_CAM\_PREF\_visualize\_DMR\_tool5\_color**

integer

**UF\_CAM\_PREF\_orient\_wcs\_to\_mcs**

integer

**UF\_CAM\_PREF\_cre\_fea\_grp\_in\_manu\_fea\_mang**

integer

**UF\_CAM\_PREF\_autoset\_machining\_data**

integer

**UF\_CAM\_PREF\_automatically\_update\_when\_loading**

logical NEW in NX 3.0

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## UF\_CAM\_tool\_position\_e [\(view source\)](#)

Defined in: `uf_cam.h`

Also known as:

- `UF_CAM_tool_position_t`
- `UF_CAM_tool_position_p_t`

### Data Members

**UF\_CAM\_tool\_position\_undefined**

**UF\_CAM\_tool\_position\_on**

**UF\_CAM\_tool\_position\_tanto**

## UF\_CAMBND\_UDE\_set\_type\_e [\(view source\)](#)

Defined in: `uf_cambnd.h`

Also known as:

- `UF_CAMBND_UDE_set_type_t`

### Data Members

`UF_CAMBND_UDE_UNDEFINED = 0`

`UF_CAMBND_UDE_START_SET`

`UF_CAMBND_UDE_END_SET`

---

## UF\_CAMGEOM\_custom\_point\_type\_e [\(view source\)](#)

Defined in: `uf_camgeom.h`

Also known as:

- `UF_CAMGEOM_custom_point_type_t`

### Overview

custom point types

### Data Members

`UF_CAMGEOM_predrill_engage_type`

`UF_CAMGEOM_cut_region_start_type`

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## UF\_FBM\_GEOM\_crit\_value\_type\_e [\(view source\)](#)

Defined in: `uf_fbm_geom.h`

Also known as:

- `UF_FBM_GEOM_crit_value_type_t`
- `UF_FBM_GEOM_crit_value_type_p_t`

## Overview

Types of the classification criteria of the FBM\_GEOM group.

## Environment

Internal and External

## Data Members

UF\_FBM\_GEOM\_crit\_value\_type\_undefined

UF\_FBM\_GEOM\_crit\_value\_type\_logical

UF\_FBM\_GEOM\_crit\_value\_type\_integer

UF\_FBM\_GEOM\_crit\_value\_type\_double

UF\_FBM\_GEOM\_crit\_value\_type\_string

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## UF\_MFM\_attr\_value\_type\_e [\(view source\)](#)

Defined in: `uf_mfm.h`

Also known as:

- `UF_MFM_attr_value_type_t`
- `UF_MFM_attr_value_type_p_t`

## Overview

Types of the attribute of the machining feature.

## Environment

Internal and External

## Data Members

UF\_MFM\_attr\_value\_type\_undefined

UF\_MFM\_attr\_value\_type\_logical

UF\_MFM\_attr\_value\_type\_integer

UF\_MFM\_attr\_value\_type\_double

UF\_MFM\_attr\_value\_type\_string



## UF\_MFM\_machined\_status\_e [\(view source\)](#)

Defined in: `uf_mfm.h`

Also known as:

- `UF_MFM_machined_status_t`
- `UF_MFM_machined_status_p_t`

### Overview

Machined status of the machining feature.

### Environment

Internal and External

### Data Members

#### `UF_MFM_machined_status_empty`

No process is defined

#### `UF_MFM_machined_status_regenerate`

Some toolpaths of the process need to regenerate

#### `UF_MFM_machined_status_incomplete`

Some toolpaths of the process is not complete

#### `UF_MFM_machined_status_complete`

Toolpaths of the process is completed

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## UF\_MFM\_source\_type\_e [\(view source\)](#)

Defined in: `uf_mfm.h`

Also known as:

- `UF_MFM_source_type_t`
- `UF_MFM_source_type_p_t`

### Overview

Types of the source of the machining feature.

### Environment

Internal and External

### Data Members

#### `UF_MFM_source_type_undefined`

Unknown type

#### `UF_MFM_source_type_user_defined_feature`

Modeling user-defined feature

#### `UF_MFM_source_type_standard_feature`

Modeling standard feature

#### `UF_MFM_source_type_tagged_edge`

Tagged edge object

### **UF\_MFM\_source\_type\_tagged\_face**

Tagged face object

### **UF\_MFM\_source\_type\_tagged\_point**

Tagged point object

### **UF\_MFM\_source\_type\_tagged\_arc**

Tagged arc object

### **UF\_MFM\_source\_type\_recognized\_feature**

Recognized feature

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## **UF\_NCMCT\_setup\_replace\_mode\_t** ([view source](#))

Defined in: `uf_lib_cam.h`

### **Overview**

Defines

### **Data Members**

#### **UF\_NCMCT\_SETUP\_REPLACE\_NONE = 0**

no workpiece replacement

#### **UF\_NCMCT\_ORIENT\_MACHINE\_ZERO\_TO\_MCS**

orient machine zero to main mcs

#### **UF\_NCMCT\_USE\_ASSEMBLY\_POSITIONING**

use assembly positioning

#### **UF\_NCMCT\_USE\_PART\_MOUNT\_JUNCTION**

use part mount junction

#### **UF\_NCMCT\_USE\_OLD\_MACHINE\_TRANSFORM**

new machine is transformed the same way  
as the old one, if no old then identity

#### **UF\_NCMCT\_KEEP\_ASSEMBLY\_CONSTRAINTS**

new machine is transformed by using  
the existing assembly constraints

---

## **UF\_OPRBND\_UDE\_set\_type\_e** ([view source](#))

Defined in: `uf_oprbnd.h`

Also known as:

- `UF_OPRBND_UDE_set_type_t`

### **Data Members**

#### **UF\_OPRBND\_UDE\_UNDEFINED = 0**

**UF\_OPRBND\_UDE\_START\_SET**

**UF\_OPRBND\_UDE\_END\_SET**

---

**UF\_PARAM\_access\_vector\_method\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### Data Members

**UF\_PARAM\_access\_vector\_method\_zm = 0**  
positive z-direction of MCS

**UF\_PARAM\_access\_vector\_method\_neg\_zm**  
negative z-direction of MCS

**UF\_PARAM\_access\_vector\_method\_specify**  
user specified

---

**UF\_PARAM\_avoid\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_3d

### Data Members

**UF\_PARAM\_avoid\_none**

**UF\_PARAM\_avoid\_warning**

**UF\_PARAM\_avoid\_stepover**

**UF\_PARAM\_avoid\_lift**

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**UF\_PARAM\_bnd\_approx\_toggle\_index\_t** ([view source](#))

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_boundary\_approximation\_off = 0**

**UF\_PARAM\_boundary\_approximation\_on = 1**

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## UF\_PARAM\_bnd\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

## Data Members

**UF\_PARAM\_bnd\_diagonal\_pts = 10**

**UF\_PARAM\_bnd\_grid\_percent = 20**

---

## UF\_PARAM\_cleanup\_directional\_steep\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_logical

## Data Members

**UF\_PARAM\_cleanup\_directional\_steep\_none = 0**

**UF\_PARAM\_cleanup\_non\_directional\_steep = 1**

**UF\_PARAM\_cleanup\_directional\_steep = 2**

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## UF\_PARAM\_cleanup\_geom\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

## Data Members

**UF\_PARAM\_cleanup\_geom\_type\_point = 0**

**UF\_PARAM\_cleanup\_geom\_type\_bnd = 1**

---

## UF\_PARAM\_cleanup\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_logical

### Data Members

**UF\_PARAM\_cleanup\_type\_off = 0**

**UF\_PARAM\_cleanup\_type\_uncut\_valley = 1**

**UF\_PARAM\_cleanup\_type\_steep\_area = 2**

**UF\_PARAM\_cleanup\_type\_both = 3**

**UF\_PARAM\_cleanup\_type\_flowcut\_contacts = 4**

**UF\_PARAM\_cleanup\_type\_flowcut\_toolend = 5**

**UF\_PARAM\_cleanup\_type\_flowcut\_both = 6**

---

## UF\_PARAM\_clrplane\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

### Data Members

**UF\_PARAM\_clrplane\_undefined = 0**

**UF\_PARAM\_clrplane\_define\_and\_active = 1**

**UF\_PARAM\_clrplane\_define\_and\_inactive = 2**

---

## UF\_PARAM\_clrplane\_usage\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_clrplane\_usage\_at\_operation\_start\_and\_end = 1

UF\_PARAM\_clrplane\_usage\_at\_operation\_start\_only = 2

UF\_PARAM\_clrplane\_usage\_at\_operation\_end\_only = 3

UF\_PARAM\_clrplane\_usage\_at\_start\_min\_clearance\_at\_end = 4

UF\_PARAM\_clrplane\_usage\_at\_end\_min\_clearance\_at\_start = 5

---

## UF\_PARAM\_clv\_range\_subdiv\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_clv\_range\_subdiv\_equalise = 0  
subdivide cut range into equal steps

UF\_PARAM\_clv\_range\_subdiv\_bottoms\_only = 1  
cut at range bottoms only

UF\_PARAM\_clv\_range\_subdiv\_optimal = 2  
subdivide cut range in an optimal way such that max distance on part between cuts is approximately the same.

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## UF\_PARAM\_clv\_range\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

**UF\_PARAM\_clv\_range\_auto\_generate = 0**

cut levels defined by system

**UF\_PARAM\_clv\_range\_user\_defined = 1**

cut levels are defined by user

**UF\_PARAM\_clv\_range\_single = 2**

Single cut range

---

**UF\_PARAM\_clv\_top\_off\_mode\_t** ([view source](#))

Defined in: `uf_param_indices.h`

**Data Members****UF\_PARAM\_clv\_top\_off\_mode\_off = 0**

Don't top off horizontal surfaces.

**UF\_PARAM\_clv\_top\_off\_mode\_on = 1**

Do top off horizontal surfaces.

---

**UF\_PARAM\_control\_point\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

**Data Members****UF\_PARAM\_control\_point\_type\_tool\_tip = 0****UF\_PARAM\_control\_point\_type\_shoulder = 1**

---

**UF\_PARAM\_corner\_cir\_feed\_comp\_t** ([view source](#))

Defined in: `uf_param_indices.h`

**Overview**

UF\_PARAM\_type\_vla\_int

**Data Members****UF\_PARAM\_corner\_cir\_feed\_comp\_off = 0****UF\_PARAM\_corner\_cir\_feed\_comp\_on = 1**

---

## UF\_PARAM\_corner\_fillet\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_corner\_fillet\_type\_none = 0

UF\_PARAM\_corner\_fillet\_type\_all\_passes = 1

---

## UF\_PARAM\_corner\_loops\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

### Data Members

UF\_PARAM\_corner\_loops\_status\_off

UF\_PARAM\_corner\_loops\_status\_on

---

## UF\_PARAM\_corner\_slowdown\_length\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_corner\_slowdown\_length\_method\_previous\_tool = 0

UF\_PARAM\_corner\_slowdown\_length\_method\_percent\_tool = 1

---



## UF\_PARAM\_corner\_slowdown\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

### Data Members

UF\_PARAM\_corner\_slowdown\_status\_off = 0

UF\_PARAM\_corner\_slowdown\_status\_on = 1

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## UF\_PARAM\_csys\_purpose\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_csys\_purpose\_local = 0

UF\_PARAM\_csys\_purpose\_main

---

## UF\_PARAM\_cut\_across\_voids\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_across\_voids\_method\_follow = 0

UF\_PARAM\_across\_voids\_method\_cut = 1

UF\_PARAM\_across\_voids\_method\_traverse = 2

---

## UF\_PARAM\_cut\_angle\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_cut\_angle\_method\_t

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_cut\_angle\_method\_user\_defined = 0**

**UF\_PARAM\_cut\_angle\_method\_automatic = 1**

**UF\_PARAM\_cut\_angle\_method\_longest\_line = 2**

---

## UF\_PARAM\_cut\_between\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

**UF\_PARAM\_cut\_between\_none = 0**

Don't do cut between machining.

**UF\_PARAM\_cut\_between\_using\_follow\_periphery = 1**

Do cut between machining using a follow periphery pattern.

---

## UF\_PARAM\_cut\_ctrl\_predrill\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_cut\_ctrl\_predrill\_status\_inactive = 0**

**UF\_PARAM\_cut\_ctrl\_predrill\_status\_active = 1**

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## UF\_PARAM\_cut\_ctrl\_start\_point\_mode\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_cut\_ctrl\_start\_point\_mode\_t

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cut\_ctrl\_start\_point\_mode\_standard = 0

UF\_PARAM\_cut\_ctrl\_start\_point\_mode\_automatic = 1

---

## UF\_PARAM\_cut\_ctrl\_start\_point\_toggle\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cut\_ctrl\_start\_point\_toggle\_inactive = 0

UF\_PARAM\_cut\_ctrl\_start\_point\_toggle\_active = 1

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## UF\_PARAM\_cut\_ctrl\_trim\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_cut\_ctrl\_trim\_method\_t

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_cut\_ctrl\_trim\_method\_none = 0**

**UF\_PARAM\_cut\_ctrl\_trim\_method\_silhoutte = 1**

**UF\_PARAM\_cut\_ctrl\_trim\_method\_exterior\_edges = 1**

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## UF\_PARAM\_cut\_dir\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_cut\_dir\_undefined**

**UF\_PARAM\_cut\_dir\_climb**

**UF\_PARAM\_cut\_dir\_conventional**

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## UF\_PARAM\_cut\_follow\_check\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

**UF\_PARAM\_cut\_follow\_check\_off = 0**  
During cutting the tool will not cut along check geometry.

**UF\_PARAM\_cut\_follow\_check\_on = 1**  
During cutting the tool will cut along check geometry.

---

## UF\_PARAM\_cut\_follow\_progression\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

## Data Members

**UF\_PARAM\_cut\_follow\_progression\_inward = 1**

**UF\_PARAM\_cut\_follow\_progression\_outward = 2**

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## UF\_PARAM\_cut\_island\_cleanup\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

## Data Members

**UF\_PARAM\_cut\_island\_cleanup\_status\_off = 1**

**UF\_PARAM\_cut\_island\_cleanup\_status\_on = 2**

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## UF\_PARAM\_cut\_level\_order\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_cut\_level\_order\_t

### Overview

UF\_PARAM\_type\_int

## Data Members

**UF\_PARAM\_cut\_level\_order\_level\_first = 1**

**UF\_PARAM\_cut\_level\_order\_depth\_first = 2**

---

## UF\_PARAM\_cut\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_cut\_method\_t

## Overview

UF\_PARAM\_type\_double

## Data Members

UF\_PARAM\_cut\_method\_undefined = 0

UF\_PARAM\_cut\_method\_zig\_zag = 1

UF\_PARAM\_cut\_method\_zig = 2

UF\_PARAM\_cut\_method\_zig\_with\_contour = 3

UF\_PARAM\_cut\_method\_follow\_periphery = 4

UF\_PARAM\_cut\_method\_profile = 5

UF\_PARAM\_cut\_method\_standard\_drive = 6

UF\_PARAM\_cut\_method\_follow\_part = 7

UF\_PARAM\_cut\_method\_mixed = 8

UF\_PARAM\_cut\_method\_trochoidal = 9

UF\_PARAM\_cut\_method\_spiral = 10

UF\_PARAM\_cut\_method\_helical = 11

---

## UF\_PARAM\_cut\_multi\_depth\_flag\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Overview

UF\_PARAM\_type\_int

## Data Members

UF\_PARAM\_cut\_multi\_depth\_flag\_off

UF\_PARAM\_cut\_multi\_depth\_flag\_on

## UF\_PARAM\_cut\_multi\_depth\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cut\_multi\_depth\_type\_increment

UF\_PARAM\_cut\_multi\_depth\_type\_passes

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## UF\_PARAM\_cut\_profile\_pass\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_no\_finish\_pass = 0

UF\_PARAM\_finish\_pass = 1

---

## UF\_PARAM\_cut\_ramp\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_cut\_ramp\_method\_off

UF\_PARAM\_cut\_ramp\_method\_on

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## UF\_PARAM\_cut\_reseq\_region\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

**Also known as:**

- UF\_PARAM\_cut\_reseq\_region\_method\_t

**Data Members**

UF\_PARAM\_cut\_reseq\_region\_method\_standard = 0

UF\_PARAM\_cut\_reseq\_region\_method\_optimize = 1

UF\_PARAM\_cut\_reseq\_region\_method\_region\_points = 2

UF\_PARAM\_cut\_reseq\_region\_method\_predrill\_points = 3

---

**UF\_PARAM\_cut\_std\_drive\_self\_intersect\_t** ([view source](#))

Defined in: `uf_param_indices.h`

**Overview**

UF\_PARAM\_type\_int

**Data Members**

UF\_PARAM\_do\_not\_allow\_self\_intersection\_in\_standard\_drive = 0

UF\_PARAM\_allow\_self\_intersection\_in\_standard\_drive = 1

---

**UF\_PARAM\_cut\_trace\_method\_e** ([view source](#))

Defined in: `uf_param_indices.h`

**Also known as:**

- UF\_PARAM\_cut\_trace\_method\_t

**Overview**

UF\_PARAM\_type\_double\_length

**Data Members**

UF\_PARAM\_cut\_trace\_method\_non\_tolerant = 0

UF\_PARAM\_cut\_trace\_method\_tolerant = 1



---

## UF\_PARAM\_cut\_undercut\_toggle\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_cut\_undercut\_status\_inactive = 0**

Obsoleted in NX4

**UF\_PARAM\_cut\_undercut\_status\_allow = 0**

**UF\_PARAM\_cut\_undercut\_status\_active = 1**

Obsoleted in NX4

**UF\_PARAM\_cut\_undercut\_status\_prevent = 1**

---

## UF\_PARAM\_cut\_uv\_dir\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_vla\_real

### Data Members

**UF\_PARAM\_cut\_uv\_dir\_undefined = 0**

**UF\_PARAM\_cut\_uv\_dir\_posU = 1**

**UF\_PARAM\_cut\_uv\_dir\_negU = 2**

**UF\_PARAM\_cut\_uv\_dir\_posV = 3**

**UF\_PARAM\_cut\_uv\_dir\_negV = 4**

---

## UF\_PARAM\_cut\_volume\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

## Data Members

UF\_PARAM\_cut\_volume\_none = 0

UF\_PARAM\_cut\_volume\_calc = 1

---

## UF\_PARAM\_cut\_wall\_cleanup\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

## Data Members

UF\_PARAM\_cut\_wall\_cleanup\_off = 0

UF\_PARAM\_cut\_wall\_cleanup\_on = 1  
Obsolete

UF\_PARAM\_cut\_wall\_cleanup\_after\_cutting\_region = 1

UF\_PARAM\_cut\_wall\_cleanup\_before\_cutting\_region = 2  
Obsolete

UF\_PARAM\_cut\_wall\_cleanup\_automatic = 3

---

## UF\_PARAM\_cut\_walls\_only\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_logical

## Data Members

UF\_PARAM\_cut\_walls\_only\_off = 0  
Tool will cut along all part segments of the region.

UF\_PARAM\_cut\_walls\_only\_on = 1  
Tool will only cut along part segments that lie on a wall.

## UF\_PARAM\_cutcom\_plane\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cutcom\_plane\_not\_used = 0

UF\_PARAM\_cutcom\_plane\_output\_to\_cls = 1

---

## UF\_PARAM\_cutcom\_register\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cutcom\_register\_number\_not\_used = 0

UF\_PARAM\_cutcom\_register\_number\_output\_to\_cls = 1

---

## UF\_PARAM\_cutcom\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cutcom\_type\_none = 0

UF\_PARAM\_cutcom\_type\_engage\_retract = 1

UF\_PARAM\_cutcom\_type\_against\_wall = 2

---

## UF\_PARAM\_cutlev\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_cutlev\_method\_user\_defined = 0

UF\_PARAM\_cutlev\_method\_floor\_only = 1

UF\_PARAM\_cutlev\_method\_floor\_and\_island\_tops = 2

UF\_PARAM\_cutlev\_method\_levels\_at\_island\_tops = 3

UF\_PARAM\_cutlev\_method\_fixed\_depth = 4

---

## UF\_PARAM\_cutlev\_topoff\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

UF\_PARAM\_cutlev\_topoff\_status\_inactive = 0

UF\_PARAM\_cutlev\_topoff\_status\_active = 1

---

## UF\_PARAM\_cutter\_data\_output\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

Param\_type\_vla\_string

### Data Members

UF\_PARAM\_tool\_preNX2\_contact\_data\_2D = -1

UF\_PARAM\_tool\_centerline\_data = 0

**UF\_PARAM\_tool\_contact\_data\_2D = 1**

**UF\_PARAM\_tool\_contact\_data\_3D = 2**

---

## **UF\_PARAM\_disp\_refresh\_status\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_disp\_refresh\_status\_inactive = 0**

**UF\_PARAM\_disp\_refresh\_status\_active = 1**

---

## **UF\_PARAM\_disp\_region\_pause\_status\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_disp\_region\_pause\_status\_inactive = 0**

**UF\_PARAM\_disp\_region\_pause\_status\_active = 1**

---

## **UF\_PARAM\_disp\_region\_status\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_disp\_region\_status\_inactive = 0**

**UF\_PARAM\_disp\_region\_status\_active = 1**

---

## **UF\_PARAM\_dpm\_cut\_pattern\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### Data Members

**UF\_PARAM\_dpm\_cut\_pattern\_none = 0**

**UF\_PARAM\_dpm\_cut\_pattern\_zig\_zag = 1**

**UF\_PARAM\_dpm\_cut\_pattern\_zig = 2**

**UF\_PARAM\_dpm\_cut\_pattern\_zig\_contour = 3**

**UF\_PARAM\_dpm\_cut\_pattern\_follow = 4**

**UF\_PARAM\_dpm\_cut\_pattern\_profile = 5**

**UF\_PARAM\_dpm\_cut\_pattern\_drive\_curve = 6**

**UF\_PARAM\_dpm\_cut\_pattern\_zig\_zag\_lift = 7**

**UF\_PARAM\_dpm\_cut\_pattern\_zig\_stepover = 8**

**UF\_PARAM\_dpm\_cut\_pattern\_concentric = 9**

**UF\_PARAM\_dpm\_cut\_pattern\_radial = 10**

**UF\_PARAM\_dpm\_cut\_pattern\_radial\_zig\_zag = 11**

**UF\_PARAM\_dpm\_cut\_pattern\_radial\_zig = 12**

**UF\_PARAM\_dpm\_cut\_pattern\_radial\_zig\_contour = 13**

**UF\_PARAM\_dpm\_cut\_pattern\_radial\_zig\_stepover = 14**

**UF\_PARAM\_dpm\_cut\_pattern\_concentric\_zig\_zag = 15**

**UF\_PARAM\_dpm\_cut\_pattern\_concentric\_zig = 16**

UF\_PARAM\_dpm\_cut\_pattern\_concentric\_zig\_contour = 17

UF\_PARAM\_dpm\_cut\_pattern\_concentric\_zig\_stepover = 18

UF\_PARAM\_dpm\_cut\_pattern\_radial\_zig\_zag\_lift = 19

UF\_PARAM\_dpm\_cut\_pattern\_helical = 30

---

## UF\_PARAM\_dpm\_proj\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_vla\_length\_composite, size 6

### Data Members

UF\_PARAM\_dpm\_proj\_type\_fixed = 1

UF\_PARAM\_dpm\_proj\_type\_toolaxis

UF\_PARAM\_dpm\_proj\_type\_awaypt

UF\_PARAM\_dpm\_proj\_type\_towardpt

UF\_PARAM\_dpm\_proj\_type\_awayline

UF\_PARAM\_dpm\_proj\_type\_towardline

UF\_PARAM\_dpm\_proj\_type\_ruling

UF\_PARAM\_dpm\_proj\_type\_normdrive

UF\_PARAM\_dpm\_proj\_type\_user\_defined

UF\_PARAM\_dpm\_proj\_type\_towarddrive

---

## UF\_PARAM\_dpm\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Overview

UF\_PARAM\_type\_vla\_real(6)

## Data Members

UF\_PARAM\_dpm\_type\_none = 0

UF\_PARAM\_dpm\_type\_point = 10

UF\_PARAM\_dpm\_type\_curve = 20

UF\_PARAM\_dpm\_type\_surface = 30

UF\_PARAM\_dpm\_type\_interpolated\_tool\_path = 35

UF\_PARAM\_dpm\_type\_boundary = 40

UF\_PARAM\_dpm\_type\_path = 50

UF\_PARAM\_dpm\_type\_radial = 60

UF\_PARAM\_dpm\_type\_spiral = 70

UF\_PARAM\_dpm\_type\_helical = 80  
for future use

UF\_PARAM\_dpm\_type\_user\_defined = 90

UF\_PARAM\_dpm\_type\_area\_milling = 100

UF\_PARAM\_dpm\_type\_text = 110  
drafting notes

UF\_PARAM\_dpm\_type\_contour\_milling = 120

---

## UF\_PARAM\_dpmcv\_step\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Overview

Param\_type\_int

## Data Members

UF\_PARAM\_dpmcv\_step\_types\_undefined = 0



**UF\_PARAM\_dpmcv\_step\_type\_points = 10**

**UF\_PARAM\_dpmcv\_step\_type\_tolerance = 20**

---

## **UF\_PARAM\_dpmrc\_bnd\_dir\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

Param\_type\_int

### **Data Members**

**UF\_PARAM\_dpmrc\_bnd\_dir\_forward**

**UF\_PARAM\_dpmrc\_bnd\_dir\_backward**

---

## **UF\_PARAM\_drive\_avoid\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_double\_length

### **Data Members**

**UF\_PARAM\_drive\_avoid\_none**

**UF\_PARAM\_drive\_avoid\_warning**

**UF\_PARAM\_drive\_avoid\_stepover**

**UF\_PARAM\_drive\_avoid\_lift**

---

## **UF\_PARAM\_edge\_trace\_removal\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_edge_trace_removal_t`

## Overview

UF\_PARAM\_type\_double

## Data Members

UF\_PARAM\_edge\_trace\_removal\_off = 0

UF\_PARAM\_edge\_trace\_removal\_on = 1

---

## UF\_PARAM\_edgext\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

UF\_PARAM\_edgext\_type\_none = 0

UF\_PARAM\_edgext\_type\_specify = 1

---

## UF\_PARAM\_eng\_auto\_ramp\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

UF\_PARAM\_eng\_auto\_ramp\_method\_ramp\_on\_lines = 1

UF\_PARAM\_eng\_auto\_ramp\_method\_ramp\_on\_lines\_and\_arcs = 2

UF\_PARAM\_eng\_auto\_ramp\_method\_helical\_ramping = 3

---

## UF\_PARAM\_eng\_init\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Overview

UF\_PARAM\_type\_int

## Data Members

UF\_PARAM\_eng\_init\_type\_none = 0

UF\_PARAM\_eng\_init\_type\_vector = 1

UF\_PARAM\_eng\_init\_type\_vector\_plane = 2

UF\_PARAM\_eng\_init\_type\_angle\_angle\_plane = 3

UF\_PARAM\_eng\_init\_type\_angle\_angle\_distance = 4

UF\_PARAM\_eng\_init\_type\_tool\_axis = 6

UF\_PARAM\_eng\_init\_type\_from\_a\_point = 7

UF\_PARAM\_eng\_init\_type\_automatic = 8

---

## UF\_PARAM\_eng\_inter\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Overview

UF\_PARAM\_type\_int

## Data Members

UF\_PARAM\_eng\_inter\_type\_automatic = 0

UF\_PARAM\_eng\_inter\_type\_tool\_axis = 1

UF\_PARAM\_eng\_inter\_type\_none = 2

UF\_PARAM\_eng\_inter\_type\_as\_initial = 3

---

## UF\_PARAM\_engage\_into\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

`UF_PARAM_engage_into_type_none = 0`

`UF_PARAM_engage_into_type_pattern_center_taxis`

`UF_PARAM_engage_into_type_pattern_center_ramp`

---

## UF\_PARAM\_engage\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_engage_type_t`

## Overview

`UF_PARAM_type_double`

## Data Members

`UF_PARAM_engage_type_undefined = -1`

`UF_PARAM_engage_type_auto_circular = 0`

`UF_PARAM_engage_type_auto_linear = 1`

`UF_PARAM_engage_type_vector = 2`

`UF_PARAM_engage_type_angle_distance = 3`

`UF_PARAM_engage_type_rel_linear = 4`

`UF_PARAM_engage_type_point = 5`

`UF_PARAM_engage_type_two_circles = 6`

`UF_PARAM_engage_type_2pt_tang = 7`

## UF\_PARAM\_engret\_auto\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

### Data Members

UF\_PARAM\_engret\_auto\_type\_linear = 0

UF\_PARAM\_engret\_auto\_type\_circular = 1

---

## UF\_PARAM\_fcut\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

UF\_PARAM\_fcut\_mode\_single = 0

UF\_PARAM\_fcut\_mode\_multiple = 1

UF\_PARAM\_fcut\_mode\_reftool = 2

---

## UF\_PARAM\_fcut\_steep\_opt\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_fcut\_steep\_opt\_none

UF\_PARAM\_fcut\_steep\_opt\_steep

UF\_PARAM\_fcut\_steep\_opt\_non\_steep

## UF\_PARAM\_feed\_unit\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_pointer

### Data Members

UF\_PARAM\_feed\_none = 0

UF\_PARAM\_feed\_per\_minute = 1

UF\_PARAM\_feed\_per\_revolution = 2

---

## UF\_PARAM\_geom\_steep\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_geom\_steep\_method\_t

### Data Members

UF\_PARAM\_geom\_steep\_method\_not\_applied = 0

UF\_PARAM\_geom\_steep\_method\_applied = 1

---

## UF\_PARAM\_gouge\_checking\_flag\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_gouge\_checking\_flag\_t

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_gouge\_checking\_flag\_off = 0

**UF\_PARAM\_gouge\_checking\_flag\_on = 1**

---

## **UF\_PARAM\_hole\_axis\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_hole\_axis\_type\_vector = 0**

**UF\_PARAM\_hole\_axis\_type\_rule = 1**

**UF\_PARAM\_hole\_axis\_type\_rule\_if\_no\_vector = 2**

---

## **UF\_PARAM\_hole\_depth\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_hole\_depth\_type\_point = 0**

**UF\_PARAM\_hole\_depth\_type\_rule = 1**

---

## **UF\_PARAM\_hole\_top\_output\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_hole\_top\_output\_type\_holetop = 0**

**UF\_PARAM\_hole\_top\_output\_type\_ipwtop = 1**

---

## UF\_PARAM\_ipw\_save\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_ipw\_save\_method\_t

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_ipw\_save\_method\_no\_save = 0

UF\_PARAM\_ipw\_save\_method\_save = 1

---

## UF\_PARAM\_ipw\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_ipw\_type\_none = 0

UF\_PARAM\_ipw\_type\_3d = 1

UF\_PARAM\_ipw\_type\_level\_based = 2

---

## UF\_PARAM\_level\_to\_level\_cut\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_level\_to\_level\_method\_use\_transfer\_method = 0

UF\_PARAM\_level\_to\_level\_method\_direct\_on\_part = 1

UF\_PARAM\_level\_to\_level\_method\_ramp\_on\_part = 2



**UF\_PARAM\_level\_to\_level\_method\_staggered\_ramp\_on\_part = 3**

---

## **UF\_PARAM\_lwplane\_status\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_double

### **Data Members**

**UF\_PARAM\_lwplane\_status\_undefined = 0**

**UF\_PARAM\_lwplane\_status\_defined\_and\_active = 1**

**UF\_PARAM\_lwplane\_status\_defined\_and\_inactive = 2**

---

## **UF\_PARAM\_lwplane\_usage\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_output\_warning\_only = 0**

**UF\_PARAM\_project\_to\_lwplane\_along\_normal\_to\_plane = 1**

**UF\_PARAM\_project\_to\_lwplane\_along\_tool\_axis = 2**

---

## **UF\_PARAM\_max\_cut\_traverse\_type\_e** [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_max_cut_traverse_type_t`

### **Overview**

UF\_PARAM\_type\_double\_length

## Data Members

UF\_PARAM\_max\_cut\_traverse\_type\_inactive

UF\_PARAM\_max\_cut\_traverse\_type\_distance

UF\_PARAM\_max\_cut\_traverse\_type\_percent\_tool\_diameter

---

## UF\_PARAM\_max\_cut\_width\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double

## Data Members

UF\_PARAM\_max\_cut\_width\_type\_distance = 0

UF\_PARAM\_max\_cut\_width\_type\_percent\_tool\_diameter = 1

---

## UF\_PARAM\_mct\_turret\_wpl\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

Param\_type\_logical

## Data Members

UF\_PARAM\_mct\_turret\_wpl\_type\_x\_y = 0

UF\_PARAM\_mct\_turret\_wpl\_type\_z\_x = 1

---

## UF\_PARAM\_min\_num\_eng\_usage\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

## Data Members

**UF\_PARAM\_minimize\_number\_of\_engages\_not\_apply = 0**

**UF\_PARAM\_minimize\_number\_of\_engages\_apply = 1**

---

## UF\_PARAM\_model\_depth\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_model\_depth\_type\_always = 0**

**UF\_PARAM\_model\_depth\_type\_rule = 1**

---

## UF\_PARAM\_motion\_output\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_motion_output_t`

## Overview

`UF_PARAM_type_double_length`

## Data Members

**UF\_PARAM\_motion\_output\_linear\_only = -1**

**UF\_PARAM\_motion\_output\_cir\_perp\_to\_taxis = 0**

**UF\_PARAM\_motion\_output\_cir\_perp\_parallel\_to\_taxis = 1**

**UF\_PARAM\_motion\_output\_nurbs = 2**

---

## UF\_PARAM\_nurbs\_output\_flag\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_nurbs_output_flag_t`

## Overview

`UF_PARAM_type_int`

## Data Members

`UF_PARAM_nurbs_output_flag_join_segment_off = 0`

`UF_PARAM_nurbs_output_flag_join_segment_on = 1`

---

## `UF_PARAM_part_contain_t` [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Overview

`Param_type_logical`

## Data Members

`UF_PARAM_part_contain_off`

`UF_PARAM_part_contain_largest_loop`

`UF_PARAM_part_contain_all_loops`

---

## `UF_PARAM_pattern_secondary_e` [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_pattern_secondary_t`

## Overview

`UF_PARAM_type_int`

## Data Members

`UF_PARAM_pattern_secondary_undefined = 0`

`UF_PARAM_pattern_secondary_zig = 1`

**UF\_PARAM\_pattern\_secondary\_zig\_zag = 2**

---

## **UF\_PARAM\_plunge\_direction\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_plunge\_direction\_cut\_down = 0**

**UF\_PARAM\_plunge\_direction\_cut\_up\_and\_down = 1**

---

## **UF\_PARAM\_predrill\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_2d

### **Data Members**

**UF\_PARAM\_predrill\_type\_no\_regions = 1**

**UF\_PARAM\_predrill\_type\_all\_regions = 2**

**UF\_PARAM\_predrill\_type\_bottom\_regions = 4**

---

## **UF\_PARAM\_ramp\_optimize\_flag\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_ramp\_optimize\_flag\_off**

## UF\_PARAM\_ramp\_optimize\_flag\_on

---

## UF\_PARAM\_rapto\_offset\_toggle\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_rapto_offset_toggle_inactive = 0`

`UF_PARAM_rapto_offset_toggle_active = 1`

---

## UF\_PARAM\_ret\_back\_out\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_ret_back_out_type_none = 0`

`UF_PARAM_ret_back_out_type_pattern_center`

---

## UF\_PARAM\_ret\_final\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_ret_final_type_none = 0`

`UF_PARAM_ret_final_type_vector = 1`

`UF_PARAM_ret_final_type_vector_plane = 2`

`UF_PARAM_ret_final_type_angle_angle_plane = 3`

**UF\_PARAM\_ret\_final\_type\_angle\_angle\_distance = 4**

**UF\_PARAM\_ret\_final\_type\_tool\_axis = 6**

**UF\_PARAM\_ret\_final\_type\_from\_a\_point = 7**

**UF\_PARAM\_ret\_final\_type\_automatic = 8**

---

## UF\_PARAM\_ret\_inter\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_ret\_inter\_type\_automatic = 0**

**UF\_PARAM\_ret\_inter\_type\_tool\_axis = 1**

**UF\_PARAM\_ret\_inter\_type\_none = 2**

**UF\_PARAM\_ret\_inter\_type\_as\_initial = 3**

---

## UF\_PARAM\_retract\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_retract_type_t`

### Data Members

**UF\_PARAM\_retract\_type\_undefined = -1**

**UF\_PARAM\_retract\_type\_auto\_circular = 0**

**UF\_PARAM\_retract\_type\_auto\_linear = 1**

**UF\_PARAM\_retract\_type\_vector = 2**

**UF\_PARAM\_retract\_type\_angle\_distance = 3**

**UF\_PARAM\_retract\_type\_rel\_linear = 4**

**UF\_PARAM\_retract\_type\_point = 5**

**UF\_PARAM\_retract\_type\_two\_circles = 6**

**UF\_PARAM\_retract\_type\_2pt\_tang = 7**

---

## UF\_PARAM\_round\_point\_output\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_seven = -7**  
+/- 0.0000001

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_six = -6**  
+/- 0.000001

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_five = -5**  
+/- 0.00001

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_four = -4**  
+/- 0.0001

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_three = -3**  
+/- 0.001

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_two = -2**  
+/- 0.01

**UF\_PARAM\_round\_point\_output\_method\_ten\_to\_minus\_one = -1**  
+/- 0.1

**UF\_PARAM\_round\_point\_output\_method\_one = 0**  
+/- 1.0

**UF\_PARAM\_round\_point\_output\_method\_ten = 1**  
+/- 10.0

**UF\_PARAM\_round\_point\_output\_method\_one\_hundred = 2**  
+/- 100.0

**UF\_PARAM\_round\_point\_output\_method\_one\_thousand = 3**  
+/- 1000.0



## UF\_PARAM\_round\_point\_output\_status\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_round\_point\_output\_status\_off = 0**

Round point positions.

**UF\_PARAM\_round\_point\_output\_status\_on = 1**

Do not round point positions.

---

## UF\_PARAM\_scs\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

Param\_type\_int

### Data Members

**UF\_PARAM\_scs\_type\_use\_xm\_ym = 0**

**UF\_PARAM\_scs\_type\_use\_zm\_xm = 1**

**UF\_PARAM\_scs\_type\_undefined = 2**

---

## UF\_PARAM\_sequence\_opt\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_inside\_out**

**UF\_PARAM\_outside\_in**

**UF\_PARAM\_steep\_last**

**UF\_PARAM\_steep\_first**

**UF\_PARAM\_inside\_out\_alternate**

**UF\_PARAM\_outside\_in\_alternate**

---

## **UF\_PARAM\_simplify\_shapes\_method\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_simplify_shapes_method_t`

### **Overview**

`UF_PARAM_type_int`

### **Data Members**

**UF\_PARAM\_simplify\_shapes\_method\_none = 0**

**UF\_PARAM\_simplify\_shapes\_method\_convex\_hull = 1**

**UF\_PARAM\_simplify\_shapes\_method\_minimum\_box = 2**

---

## **UF\_PARAM\_small\_area\_status\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_small_area_status_t`

### **Overview**

`UF_PARAM_type_double_length`

### **Data Members**

**UF\_PARAM\_small\_area\_status\_cut = 0**

**UF\_PARAM\_small\_area\_status\_ignore = 1**

## UF\_PARAM\_special\_output\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_special\_output\_none = 0

UF\_PARAM\_special\_output\_use\_main\_mcs

UF\_PARAM\_special\_output\_fixture\_offset

UF\_PARAM\_special\_output\_csys\_rotation

---

## UF\_PARAM\_spindle\_dir\_control\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_spindle\_dir\_control\_none = 0

UF\_PARAM\_spindle\_dir\_control\_clw

UF\_PARAM\_spindle\_dir\_control\_cclw

---

## UF\_PARAM\_spindle\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_spindle\_mode\_rpm = 0

UF\_PARAM\_spindle\_mode\_css = 1

**UF\_PARAM\_spindle\_mode\_none = 2**

---

## **UF\_PARAM\_steep\_cut\_dir\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_steep\_mixed**

**UF\_PARAM\_steep\_high\_to\_low**

**UF\_PARAM\_steep\_low\_to\_high**

---

## **UF\_PARAM\_steep\_opt\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_steep\_contain\_none**

**UF\_PARAM\_non\_steep\_non\_directional**

**UF\_PARAM\_steep\_directional**

---

## **UF\_PARAM\_step\_ahead\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_double

### **Data Members**

**UF\_PARAM\_step\_ahead\_type\_distance = 0**

**UF\_PARAM\_step\_ahead\_type\_percent\_tool\_diameter = 1**

---

## **UF\_PARAM\_step\_control\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_step\_control\_type\_none = 0**

**UF\_PARAM\_step\_control\_type\_tool\_diameter = 1**

**UF\_PARAM\_step\_control\_type\_max\_step = 2**

---

## **UF\_PARAM\_step\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_step\_type\_points = 10**

**UF\_PARAM\_step\_type\_tolerance = 20**

---

## **UF\_PARAM\_stepover\_apply\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_stepover\_apply\_on\_plane = 0**

**UF\_PARAM\_stepover\_apply\_on\_part = 1**

---

## UF\_PARAM\_stepover\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

**UF\_PARAM\_stepover\_type\_none = 0**

**UF\_PARAM\_stepover\_type\_constant = 1**

**UF\_PARAM\_stepover\_type\_scallop\_height = 2**

**UF\_PARAM\_stepover\_type\_variable = 3**

**UF\_PARAM\_stepover\_type\_percent\_tool\_diameter = 4**

**UF\_PARAM\_stepover\_type\_number = 5**

**UF\_PARAM\_stepover\_type\_angular = 6**

**UF\_PARAM\_stepover\_type\_use\_depth\_of\_cut = 7**

---

## UF\_PARAM\_stepover\_uv\_dir\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

**UF\_PARAM\_stepover\_uv\_dir\_undefined = 0**

**UF\_PARAM\_stepover\_uv\_dir\_posU = 1**

**UF\_PARAM\_stepover\_uv\_dir\_negU = 2**

**UF\_PARAM\_stepover\_uv\_dir\_posV = 3**

**UF\_PARAM\_stepover\_uv\_dir\_negV = 4**

---

## UF\_PARAM\_stock\_part\_use\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_stock_part_use_t`

### Data Members

**UF\_PARAM\_stock\_part\_use\_as\_is = 0**

**UF\_PARAM\_stock\_part\_use\_floor\_same\_as\_side = 1**

---

## UF\_PARAM\_suppress\_path\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

`UF_PARAM_type_int`

### Data Members

**UF\_PARAM\_path\_unsuppressed = 0**

**UF\_PARAM\_path\_suppressed = 1**

---

## UF\_PARAM\_swarf\_ruling\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

`UF_PARAM_type_int`

## Data Members

**UF\_PARAM\_swarf\_ruling\_type\_grid\_or\_trim**

**UF\_PARAM\_swarf\_ruling\_type\_uv**

---

## UF\_PARAM\_tap\_holder\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_tap_holder_type_t`

### Overview

`UF_PARAM_type_length`

## Data Members

**UF\_PARAM\_tap\_holder\_type\_rigid = 0**

**UF\_PARAM\_tap\_holder\_type\_floating = 1**

---

## UF\_PARAM\_tcdopr\_application\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_tcdopr\_application\_type\_drilling = 0**

**UF\_PARAM\_tcdopr\_application\_type\_reaming**

**UF\_PARAM\_tcdopr\_application\_type\_tapping**

---

## UF\_PARAM\_tfopr\_cut\_strategy\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_tfopr_cut_strategy_t`



## Data Members

**UF\_PARAM\_tfopr\_cut\_strategy\_diameters\_only = 0**

**UF\_PARAM\_tfopr\_cut\_strategy\_faces\_only**

**UF\_PARAM\_tfopr\_cut\_strategy\_diameters\_then\_faces**

**UF\_PARAM\_tfopr\_cut\_strategy\_faces\_then\_diameters**

**UF\_PARAM\_tfopr\_cut\_strategy\_towards\_corner**

**UF\_PARAM\_tfopr\_cut\_strategy\_away\_from\_corner**

**UF\_PARAM\_tfopr\_cut\_strategy\_down\_only**

**UF\_PARAM\_tfopr\_cut\_strategy\_all**

---

## UF\_PARAM\_tl\_min\_len\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_2d\_length

## Data Members

**UF\_PARAM\_tl\_min\_len\_none = 0**

**UF\_PARAM\_tl\_min\_len\_calc = 1**

---

## UF\_PARAM\_tl\_turn\_holder\_hand\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_tl\_turn\_holder\_hand\_left = 0**

**UF\_PARAM\_tl\_turn\_holder\_hand\_neutral**

**UF\_PARAM\_tl\_turn\_holder\_hand\_right**

---

## **UF\_PARAM\_tl\_turn\_holder\_shank\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_tl\_turn\_holder\_shank\_type\_square = 0**

**UF\_PARAM\_tl\_turn\_holder\_shank\_type\_round = 1**

---

## **UF\_PARAM\_tl\_turn\_holder\_style\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_tl\_turn\_holder\_style\_A = 0**

**UF\_PARAM\_tl\_turn\_holder\_style\_B = 1**

**UF\_PARAM\_tl\_turn\_holder\_style\_C = 2**

**UF\_PARAM\_tl\_turn\_holder\_style\_D = 3**

**UF\_PARAM\_tl\_turn\_holder\_style\_E = 4**

**UF\_PARAM\_tl\_turn\_holder\_style\_F = 5**

**UF\_PARAM\_tl\_turn\_holder\_style\_G = 6**

**UF\_PARAM\_tl\_turn\_holder\_style\_H = 7**

**UF\_PARAM\_tl\_turn\_holder\_style\_I = 8**

**UF\_PARAM\_tl\_turn\_holder\_style\_J = 9**

**UF\_PARAM\_tl\_turn\_holder\_style\_K = 10**

**UF\_PARAM\_tl\_turn\_holder\_style\_L = 11**

**UF\_PARAM\_tl\_turn\_holder\_style\_M = 12**

**UF\_PARAM\_tl\_turn\_holder\_style\_N = 13**

**UF\_PARAM\_tl\_turn\_holder\_style\_O = 14**

**UF\_PARAM\_tl\_turn\_holder\_style\_P = 15**

**UF\_PARAM\_tl\_turn\_holder\_style\_Q = 16**

**UF\_PARAM\_tl\_turn\_holder\_style\_R = 17**

**UF\_PARAM\_tl\_turn\_holder\_style\_S = 18**

**UF\_PARAM\_tl\_turn\_holder\_style\_T = 19**

**UF\_PARAM\_tl\_turn\_holder\_style\_U = 20**

**UF\_PARAM\_tl\_turn\_holder\_style\_V = 21**

**UF\_PARAM\_tl\_turn\_holder\_style\_UD = 22**

**UF\_PARAM\_tl\_turn\_holder\_style\_groove\_0 = 23**

**UF\_PARAM\_tl\_turn\_holder\_style\_groove\_45 = 24**

**UF\_PARAM\_tl\_turn\_holder\_style\_groove\_90 = 25**

**UF\_PARAM\_tl\_turn\_holder\_style\_groove\_user\_defined = 26**

---

## **UF\_PARAM\_tool\_axis\_guide\_vector\_method\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_tool\_axis\_guide\_vector\_method\_auto = 0**

automatic

## UF\_PARAM\_tool\_axis\_guide\_vector\_method\_guide

user specified

---

## UF\_PARAM\_tool\_axis\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_tlaxis\_type\_none = 0

UF\_PARAM\_tlaxis\_type\_fixed = 1

UF\_PARAM\_tlaxis\_type\_normal\_to\_part = 2

UF\_PARAM\_tlaxis\_type\_normal\_to\_first\_face = 3

UF\_PARAM\_tlaxis\_type\_swarf = 4

UF\_PARAM\_tlaxis\_type\_relative\_to\_part = 7

UF\_PARAM\_tlaxis\_type\_4axis\_normal\_to\_part = 8

UF\_PARAM\_tlaxis\_type\_away\_from\_point = 9

UF\_PARAM\_tlaxis\_type\_toward\_point = 10

UF\_PARAM\_tlaxis\_type\_away\_from\_line = 11

UF\_PARAM\_tlaxis\_type\_toward\_line = 12

UF\_PARAM\_tlaxis\_type\_away\_from\_curve = 13

UF\_PARAM\_tlaxis\_type\_toward\_curve = 14

UF\_PARAM\_tlaxis\_type\_normal\_to\_drive = 16

UF\_PARAM\_tlaxis\_type\_relative\_to\_drive = 19

UF\_PARAM\_tlaxis\_type\_4axis\_normal\_to\_drive = 20

**UF\_PARAM\_tlaxis\_type\_4axis\_relative\_to\_part = 21**

**UF\_PARAM\_tlaxis\_type\_4axis\_relative\_to\_drive = 22**

**UF\_PARAM\_tlaxis\_type\_tool\_path = 23**

**UF\_PARAM\_tlaxis\_type\_relative\_to\_vector = 24**

**UF\_PARAM\_tlaxis\_type\_dual4axis\_relative\_to\_part = 25**

**UF\_PARAM\_tlaxis\_type\_dual4axis\_relative\_to\_drive = 26**

**UF\_PARAM\_tlaxis\_type\_interpolate = 27**

**UF\_PARAM\_tlaxis\_type\_user\_defined\_to\_part = 28**

**UF\_PARAM\_tlaxis\_type\_all = 29**

---

## **UF\_PARAM\_tool\_posi\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_double\_length

### **Data Members**

**UF\_PARAM\_tool\_posi\_on\_same = 1**

**UF\_PARAM\_tool\_posi\_on\_opp = 2**

**UF\_PARAM\_tool\_posi\_tanto\_same = 3**

**UF\_PARAM\_tool\_posi\_tanto\_opp = 4**

**UF\_PARAM\_tool\_posi\_contact = 5**

---

## **UF\_PARAM\_tool\_runoff\_method\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_tool\_runoff\_method\_stay\_on\_part = 0**

**UF\_PARAM\_tool\_runoff\_method\_retract\_off\_part = 1**

---

## UF\_PARAM\_topr\_local\_frequency\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_topr\_local\_frequency\_mode\_per\_cut = 0**

**UF\_PARAM\_topr\_local\_frequency\_mode\_per\_pass**

---

## UF\_PARAM\_tracking\_point\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_contact\_point = 0**

**UF\_PARAM\_user\_defined\_point = 1**

---

## UF\_PARAM\_transfer\_method\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_transfer_method_t`

## Overview

**UF\_PARAM\_type\_int**

## Data Members

**UF\_PARAM\_transfer\_method\_direct = 0**

**UF\_PARAM\_transfer\_method\_clearance\_plane = 1**

**UF\_PARAM\_transfer\_method\_previous\_plane = 2**

**UF\_PARAM\_transfer\_method\_blank\_plane = 3**

**UF\_PARAM\_transfer\_method\_direct\_with\_clearance = 4**

---

## UF\_PARAM\_trochoid\_path\_min\_width\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_trochoid\_path\_min\_width\_type\_t

### Overview

UF\_PARAM\_type\_double

### Data Members

**UF\_PARAM\_trochoid\_path\_min\_width\_type\_distance = 0**

**UF\_PARAM\_trochoid\_path\_min\_width\_type\_percent\_tool\_diameter = 1**

---

## UF\_PARAM\_trochoid\_path\_stepover\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_trochoid\_path\_stepover\_type\_t

### Overview

UF\_PARAM\_type\_double

### Data Members

**UF\_PARAM\_trochoid\_path\_stepover\_type\_distance = 0**

**UF\_PARAM\_trochoid\_path\_stepover\_type\_percent\_tool\_diameter = 1**

---

## UF\_PARAM\_trochoid\_path\_width\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_trochoid\_path\_width\_type\_t

### Overview

UF\_PARAM\_type\_double

### Data Members

UF\_PARAM\_trochoid\_path\_width\_type\_distance = 0

UF\_PARAM\_trochoid\_path\_width\_type\_percent\_tool\_diameter = 1

---

## UF\_PARAM\_tropr\_cut\_strategy\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_tropr\_cut\_strategy\_t

### Data Members

UF\_PARAM\_tropr\_cut\_strategy\_level\_zig = 0

UF\_PARAM\_tropr\_cut\_strategy\_level\_zig\_zag

UF\_PARAM\_tropr\_cut\_strategy\_contour\_zig

UF\_PARAM\_tropr\_cut\_strategy\_contour\_zig\_zag

UF\_PARAM\_tropr\_cut\_strategy\_plunge\_zig

UF\_PARAM\_tropr\_cut\_strategy\_plunge\_alt

UF\_PARAM\_tropr\_cut\_strategy\_plunge\_castleing

UF\_PARAM\_tropr\_cut\_strategy\_plunge\_zig\_zag



**UF\_PARAM\_tropr\_cut\_strategy\_ramping\_zig**

**UF\_PARAM\_tropr\_cut\_strategy\_ramping\_zig\_zag**

---

## **UF\_PARAM\_tropr\_multi\_ramp\_pattern\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_tropr\_multi\_ramp\_pattern\_simple = 0**

**UF\_PARAM\_tropr\_multi\_ramp\_pattern\_double**

---

## **UF\_PARAM\_tropr\_ramping\_mode\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Overview**

`vla_length`

### **Data Members**

**UF\_PARAM\_tropr\_ramping\_mode\_out\_on\_every\_pass = 0**

**UF\_PARAM\_tropr\_ramping\_mode\_in\_on\_every\_pass**

**UF\_PARAM\_tropr\_ramping\_mode\_out\_first**

**UF\_PARAM\_tropr\_ramping\_mode\_in\_first**

---

## **UF\_PARAM\_ttdopr\_depth\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttdopr\_depth\_type\_depth = 0**

**UF\_PARAM\_ttdopr\_depth\_type\_end\_point**

**UF\_PARAM\_ttdopr\_depth\_type\_cross\_hole\_data**

**UF\_PARAM\_ttdopr\_depth\_type\_cross\_hole**

**UF\_PARAM\_ttdopr\_depth\_type\_shoulder\_depth**

**UF\_PARAM\_ttdopr\_depth\_type\_countersink\_diameter**

---

## **UF\_PARAM\_ttdopr\_engage\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttdopr\_engage\_type\_auto = 0**

**UF\_PARAM\_ttdopr\_engage\_type\_vector**

**UF\_PARAM\_ttdopr\_engage\_type\_angle**

---

## **UF\_PARAM\_ttdopr\_increment\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttdopr\_increment\_type\_constant = 0**

**UF\_PARAM\_ttdopr\_increment\_type\_variable**

**UF\_PARAM\_ttdopr\_increment\_type\_percentage**

---

## **UF\_PARAM\_ttdopr\_infeed\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

`UF_PARAM_ttdopr_infeed_type_engage = 0`

`UF_PARAM_ttdopr_infeed_type_thread`

---

## `UF_PARAM_ttdopr_pitch_lead_tpu_input_unit_t` [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

`UF_PARAM_ttdopr_input_unit_pitch = 0`

`UF_PARAM_ttdopr_input_unit_lead`

`UF_PARAM_ttdopr_input_unit_tpu`

---

## `UF_PARAM_ttdopr_pullout_type_t` [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

`UF_PARAM_ttdopr_pullout_type_retract = 0`

`UF_PARAM_ttdopr_pullout_type_thread`

---

## `UF_PARAM_ttdopr_retract_type_t` [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

`UF_PARAM_ttdopr_retract_type_auto = 0`

**UF\_PARAM\_ttdopr\_retract\_type\_vector**

**UF\_PARAM\_ttdopr\_retract\_type\_angle**

---

**UF\_PARAM\_ttdopr\_total\_depth\_type\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### Data Members

**UF\_PARAM\_ttdopr\_type\_root\_line = 0**

**UF\_PARAM\_ttdopr\_type\_depth\_angle**

---

**UF\_PARAM\_ttmopr\_curve\_tool\_pos\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### Overview

int

### Data Members

**UF\_PARAM\_ttmopr\_curve\_tool\_pos\_to = 0**

**UF\_PARAM\_ttmopr\_curve\_tool\_pos\_on**

**UF\_PARAM\_ttmopr\_curve\_tool\_pos\_past**

---

**UF\_PARAM\_ttmopr\_cut\_direction\_t** ([view source](#))

Defined in: `uf_param_indices.h`

### Data Members

**UF\_PARAM\_ttmopr\_cut\_direction\_forward = 0**

**UF\_PARAM\_ttmopr\_cut\_direction\_reverse**

---

## UF\_PARAM\_ttmopr\_drive\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

tag

### Data Members

UF\_PARAM\_ttmopr\_drive\_type\_prev\_check\_curve = 0

UF\_PARAM\_ttmopr\_drive\_type\_prev\_drive\_curve

UF\_PARAM\_ttmopr\_drive\_type\_new\_drive\_curve

---

## UF\_PARAM\_ttmopr\_end\_point\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_ttmopr\_end\_point\_type\_point = 0

UF\_PARAM\_ttmopr\_end\_point\_type\_curves

---

## UF\_PARAM\_ttmopr\_extend\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_ttmopr\_extend\_method\_by\_value = 0

UF\_PARAM\_ttmopr\_extend\_method\_to\_blank

---

## UF\_PARAM\_ttmopr\_feedrate\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_ttmopr_feedrate_type_approach = 0`

`UF_PARAM_ttmopr_feedrate_type_engage`

`UF_PARAM_ttmopr_feedrate_type_cut`

`UF_PARAM_ttmopr_feedrate_type_retract`

`UF_PARAM_ttmopr_feedrate_type_depart`

`UF_PARAM_ttmopr_feedrate_type_traverse`

`UF_PARAM_ttmopr_feedrate_type_return`

`UF_PARAM_ttmopr_feedrate_type_custom`

---

## UF\_PARAM\_ttmopr\_feedrate\_unit\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_ttmopr_feedrate_unit_per_rev = 0`

`UF_PARAM_ttmopr_feedrate_unit_per_min`

---

## UF\_PARAM\_ttmopr\_motion\_axes\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_ttmopr_motion_axes_direct = 0`

**UF\_PARAM\_ttmopr\_motion\_axes\_radial\_only**

**UF\_PARAM\_ttmopr\_motion\_axes\_axial\_only**

**UF\_PARAM\_ttmopr\_motion\_axes\_radial\_axial**

**UF\_PARAM\_ttmopr\_motion\_axes\_axial\_radial**

---

## **UF\_PARAM\_ttmopr\_popaway\_method\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttmopr\_popaway\_method\_none = 0**

**UF\_PARAM\_ttmopr\_popaway\_method\_automatic**

**UF\_PARAM\_ttmopr\_popaway\_method\_manual**

---

## **UF\_PARAM\_ttmopr\_start\_stop\_treatment\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttmopr\_start\_stop\_treatment\_after = 0**

**UF\_PARAM\_ttmopr\_start\_stop\_treatment\_before**

---

## **UF\_PARAM\_ttmopr\_start\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttmopr\_start\_type\_start = 0**

**UF\_PARAM\_ttmopr\_start\_type\_point**

**UF\_PARAM\_ttmopr\_start\_type\_check**

**UF\_PARAM\_ttmopr\_start\_type\_last\_pos**

---

## **UF\_PARAM\_ttmopr\_stop\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttmopr\_stop\_type\_end = 0**

**UF\_PARAM\_ttmopr\_stop\_type\_point**

**UF\_PARAM\_ttmopr\_stop\_type\_check**

**UF\_PARAM\_ttmopr\_stop\_type\_last\_pos**

---

## **UF\_PARAM\_ttmopr\_subop\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_ttmopr\_subop\_type\_rapid = 0**

**UF\_PARAM\_ttmopr\_subop\_type\_linfeed = 1**

**UF\_PARAM\_ttmopr\_subop\_type\_set\_engage = 4**

**UF\_PARAM\_ttmopr\_subop\_type\_set\_retract = 5**

**UF\_PARAM\_ttmopr\_subop\_type\_follow\_curve = 6**

**UF\_PARAM\_ttmopr\_subop\_type\_mce = 7**



---

## UF\_PARAM\_turn\_approach\_path\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_approach_path_method_direct = 0`

`UF_PARAM_turn_approach_path_method_radial_then_axial`

`UF_PARAM_turn_approach_path_method_axial_then_radial`

---

## UF\_PARAM\_turn\_avoidance\_delta\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_avoidance_delta_type_angle_distance = 0`

`UF_PARAM_turn_avoidance_delta_type_delta_move`

`UF_PARAM_turn_avoidance_delta_type_vector_distance`

---

## UF\_PARAM\_turn\_avoidance\_departure\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_avoidance_departure_mode_points = 0`

`UF_PARAM_turn_avoidance_departure_mode_same_as_approach`

`UF_PARAM_turn_avoidance_departure_mode_points_before_tool_change`

`UF_PARAM_turn_avoidance_departure_mode_same_as_approach_before_tool_change`

---

## UF\_PARAM\_turn\_avoidance\_gohome\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_avoidance_gohome_mode_point = 0`

`UF_PARAM_turn_avoidance_gohome_mode_same_as_from`

---

## UF\_PARAM\_turn\_avoidance\_path\_cs\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_avoidance_path_cs_mode_wcs = 0`

`UF_PARAM_turn_avoidance_path_cs_mode_mcs`

---

## UF\_PARAM\_turn\_avoidance\_return\_mode\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_avoidance_return_mode_point = 0`

`UF_PARAM_turn_avoidance_return_mode_delta`

`UF_PARAM_turn_avoidance_return_mode_same_as_start`

---

## UF\_PARAM\_turn\_avoidance\_start\_mode\_t [\(view source\)](#)

Defined in: [uf\\_param\\_indices.h](#)

## Overview

[UF\\_PARAM\\_type\\_double\\_length](#)

## Data Members

[UF\\_PARAM\\_turn\\_avoidance\\_start\\_mode\\_point = 0](#)

[UF\\_PARAM\\_turn\\_avoidance\\_start\\_mode\\_delta](#)

---

## [UF\\_PARAM\\_turn\\_chip\\_removal\\_method\\_t](#) [\(view source\)](#)

Defined in: [uf\\_param\\_indices.h](#)

## Data Members

[UF\\_PARAM\\_turn\\_chip\\_removal\\_method\\_none = 0](#)

[UF\\_PARAM\\_turn\\_chip\\_removal\\_method\\_break\\_chip](#)

[UF\\_PARAM\\_turn\\_chip\\_removal\\_method\\_peck\\_drill](#)

---

## [UF\\_PARAM\\_turn\\_chipctrl\\_mode\\_e](#) [\(view source\)](#)

Defined in: [uf\\_param\\_indices.h](#)

Also known as:

- [UF\\_PARAM\\_turn\\_chipctrl\\_mode\\_t](#)

## Overview

[UF\\_PARAM\\_type\\_double](#)

## Data Members

[UF\\_PARAM\\_turn\\_chipctrl\\_mode\\_const\\_break = 0](#)

[UF\\_PARAM\\_turn\\_chipctrl\\_mode\\_var\\_break](#)

[UF\\_PARAM\\_turn\\_chipctrl\\_mode\\_const\\_clear](#)

[UF\\_PARAM\\_turn\\_chipctrl\\_mode\\_var\\_clear](#)

---

## UF\_PARAM\_turn\_cleanup\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_cleanup_t`

### Overview

`Param_type_int`

### Data Members

`UF_PARAM_turn_cleanup_none = 0`

`UF_PARAM_turn_cleanup_all = 1`

`UF_PARAM_turn_cleanup_down_only = 2`

The following to be used for level cutting

`UF_PARAM_turn_cleanup_linear_none = 0`

`UF_PARAM_turn_cleanup_linear_all`

`UF_PARAM_turn_cleanup_linear_steep_only`

`UF_PARAM_turn_cleanup_linear_all_but_steep`

`UF_PARAM_turn_cleanup_linear_level_only`

`UF_PARAM_turn_cleanup_linear_all_but_level`

`UF_PARAM_turn_cleanup_linear_down_only`

The following to be used for level cutting

`UF_PARAM_turn_cleanup_linear_per_reversal`

---

## UF\_PARAM\_turn\_corner\_ctrl\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_corner_ctrl_type_t`

## Data Members

**UF\_PARAM\_turn\_corner\_ctrl\_roll\_around = 0**

**UF\_PARAM\_turn\_corner\_ctrl\_extend\_tang**

**UF\_PARAM\_turn\_corner\_ctrl\_round**

**UF\_PARAM\_turn\_corner\_ctrl\_break**

---

## UF\_PARAM\_turn\_departure\_path\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

## Data Members

**UF\_PARAM\_turn\_departure\_path\_method\_automatic = 0**

**UF\_PARAM\_turn\_departure\_path\_method\_direct**

**UF\_PARAM\_turn\_departure\_path\_method\_radial\_then\_axial**

**UF\_PARAM\_turn\_departure\_path\_method\_axial\_then\_radial**

**UF\_PARAM\_turn\_departure\_path\_method\_clear\_radial\_then\_direct**  
Last two items are only available for motion to first

**UF\_PARAM\_turn\_departure\_path\_method\_clear\_axial\_then\_direct**  
departure point, if departure path is locked to approach path.

---

## UF\_PARAM\_turn\_direction\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_direction_t`

## Data Members

**UF\_PARAM\_turn\_direction\_backward = 0**

## UF\_PARAM\_turn\_direction\_forward

---

## UF\_PARAM\_turn\_displ\_coll\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_displ_coll_t`
- `UF_PARAM_turn_displ_coll_p_t`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_turn_displ_coll_inactive_insert_only = 0`

`UF_PARAM_turn_displ_coll_active_insert_only`

`UF_PARAM_turn_displ_coll_inactive_insert_and_holder`

`UF_PARAM_turn_displ_coll_active_insert_and_holder`

---

## UF\_PARAM\_turn\_dwell\_unit\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_dwell_unit_t`

### Overview

`UF_PARAM_type_double`

### Data Members

`UF_PARAM_turn_dwell_unit_seconds = 0`

`UF_PARAM_turn_dwell_unit_revolutions`

---

## UF\_PARAM\_turn\_eng\_1plunge\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_eng_1plunge_t`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_turn_eng_1plunge_undefined = -1`

`UF_PARAM_turn_eng_1plunge_auto_linear = 1`

`UF_PARAM_turn_eng_1plunge_vector = 2`

`UF_PARAM_turn_eng_1plunge_angle_distance = 3`

`UF_PARAM_turn_eng_1plunge_point = 5`

---

## UF\_PARAM\_turn\_eng\_level\_blank\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_eng_level_blank_t`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_turn_eng_level_blank_undefined = -1`

`UF_PARAM_turn_eng_level_blank_auto_linear = 1`

`UF_PARAM_turn_eng_level_blank_vector = 2`

`UF_PARAM_turn_eng_level_blank_angle_distance = 3`

`UF_PARAM_turn_eng_level_blank_point = 5`

`UF_PARAM_turn_eng_level_blank_two_circles = 6`

---

## UF\_PARAM\_turn\_eng\_level\_part\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_eng_level_part_t`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_turn_eng_level_part_undefined = -1`

`UF_PARAM_turn_eng_level_part_auto_linear = 1`

`UF_PARAM_turn_eng_level_part_vector = 2`

`UF_PARAM_turn_eng_level_part_angle_distance = 3`

`UF_PARAM_turn_eng_level_part_point = 5`

`UF_PARAM_turn_eng_level_part_2pt_tang = 7`

---

## UF\_PARAM\_turn\_eng\_level\_safe\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_eng_level_safe_t`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_turn_eng_level_safe_undefined = -1`

`UF_PARAM_turn_eng_level_safe_auto_linear = 1`

`UF_PARAM_turn_eng_level_safe_vector = 2`



**UF\_PARAM\_turn\_eng\_level\_safe\_angle\_distance = 3**

**UF\_PARAM\_turn\_eng\_level\_safe\_point = 5**

---

## UF\_PARAM\_turn\_eng\_plunge\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_eng_plunge_t`

### Overview

`UF_PARAM_type_int`

### Data Members

**UF\_PARAM\_turn\_eng\_plunge\_undefined = -1**

**UF\_PARAM\_turn\_eng\_plunge\_auto\_linear = 1**

**UF\_PARAM\_turn\_eng\_plunge\_vector = 2**

**UF\_PARAM\_turn\_eng\_plunge\_angle\_distance = 3**

**UF\_PARAM\_turn\_eng\_plunge\_point = 5**

---

## UF\_PARAM\_turn\_eng\_profiling\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_eng_profiling_t`

### Overview

`Param_type_tag`

### Data Members

**UF\_PARAM\_turn\_eng\_profiling\_undefined = -1**

**UF\_PARAM\_turn\_eng\_profiling\_auto\_circular = 0**

**UF\_PARAM\_turn\_eng\_profiling\_auto\_linear = 1**

**UF\_PARAM\_turn\_eng\_profiling\_vector = 2**

**UF\_PARAM\_turn\_eng\_profiling\_angle\_distance = 3**

**UF\_PARAM\_turn\_eng\_profiling\_rel\_linear = 4**

**UF\_PARAM\_turn\_eng\_profiling\_point = 5**

---

## **UF\_PARAM\_turn\_feed\_accel\_length\_unit\_e** [\(view source\)](#)

**Defined in:** `uf_param_indices.h`

**Also known as:**

- `UF_PARAM_turn_feed_accel_length_unit_t`

### **Data Members**

**UF\_PARAM\_turn\_feed\_accel\_length\_unit\_length = 0**

**UF\_PARAM\_turn\_feed\_accel\_length\_unit\_percent**

---

## **UF\_PARAM\_turn\_feed\_decel\_length\_unit\_e** [\(view source\)](#)

**Defined in:** `uf_param_indices.h`

**Also known as:**

- `UF_PARAM_turn_feed_decel_length_unit_t`

### **Data Members**

**UF\_PARAM\_turn\_feed\_decel\_length\_unit\_length = 0**

**UF\_PARAM\_turn\_feed\_decel\_length\_unit\_percent**

---

## UF\_PARAM\_turn\_finish\_cut\_depth\_type\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_turn\_finish\_cut\_depth\_type\_t

### Data Members

UF\_PARAM\_turn\_finish\_cut\_depth\_type\_constant = 0

UF\_PARAM\_turn\_finish\_cut\_depth\_type\_no\_of\_passes

UF\_PARAM\_turn\_finish\_cut\_depth\_type\_individual

---

## UF\_PARAM\_turn\_finish\_direction\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_turn\_finish\_direction\_t

### Data Members

UF\_PARAM\_turn\_finish\_direction\_backward = 0

UF\_PARAM\_turn\_finish\_direction\_forward

---

## UF\_PARAM\_turn\_finish\_dwell\_mode\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_turn\_finish\_dwell\_mode\_t

### Data Members

UF\_PARAM\_turn\_dwell\_finish\_mode\_none = 0

UF\_PARAM\_turn\_dwell\_finish\_mode\_time

## UF\_PARAM\_turn\_dwell\_finish\_mode\_revolutions

---

## UF\_PARAM\_turn\_finish\_fillet\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_finish_fillet_t`

### Overview

Param\_type\_int

### Data Members

`UF_PARAM_turn_finish_fillet_add_to_faces = 0`

`UF_PARAM_turn_finish_fillet_add_to_diameters`

`UF_PARAM_turn_finish_fillet_split`

`UF_PARAM_turn_finish_fillet_omit`

---

## UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_finish_loc_rtn_mv_t`

### Data Members

`UF_PARAM_turn_finish_loc_rtn_mv_none = -1`

`UF_PARAM_turn_finish_loc_rtn_mv_direct = 0`

`UF_PARAM_turn_finish_loc_rtn_mv_radial_axial`

`UF_PARAM_turn_finish_loc_rtn_mv_axial_radial`

`UF_PARAM_turn_finish_loc_rtn_mv_clear_radial_direct`

**UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_clear\_axial\_direct**

**UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_clear\_radial\_only**

**UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_clear\_axial\_only**

**UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_radial\_clear\_axial\_direct**

**UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_radial\_axial\_radial**

**UF\_PARAM\_turn\_finish\_loc\_rtn\_mv\_radial\_clear\_axial**

---

## **UF\_PARAM\_turn\_finish\_local\_dwell\_e** [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_finish_local_dwell_t`

### **Data Members**

**UF\_PARAM\_turn\_finish\_local\_dwell\_seconds = 0**

**UF\_PARAM\_turn\_finish\_local\_dwell\_revolutions**

---

## **UF\_PARAM\_turn\_finish\_machining\_sequence\_e** [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_machining_sequence_direction_t`

### **Overview**

`Param_type_int`

### **Data Members**

**UF\_PARAM\_turn\_finish\_machining\_sequence\_same\_as\_faces\_diameters = 0**

**UF\_PARAM\_turn\_finish\_machining\_sequence\_reversed**

---

## UF\_PARAM\_turn\_finish\_overlap\_unit\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_finish_overlap_t`

### Data Members

`UF_PARAM_turn_finish_overlap_unit_distance = 0`

`UF_PARAM_turn_finish_overlap_unit_percentage`

---

## UF\_PARAM\_turn\_finish\_stop\_at\_unit\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_finish_stop_at_unit_t`

### Data Members

`UF_PARAM_turn_finish_stop_at_unit_distance = 0`

`UF_PARAM_turn_finish_stop_at_unit_percentage`

`UF_PARAM_turn_finish_stop_at_unit_smart_point`

---

## UF\_PARAM\_turn\_gohome\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

`UF_PARAM_type_int`

### Data Members

`UF_PARAM_turn_gohome_method_direct = 0`

**UF\_PARAM\_turn\_gohome\_method\_radial\_then\_axial**

**UF\_PARAM\_turn\_gohome\_method\_axial\_then\_radial**

**UF\_PARAM\_turn\_gohome\_method\_clear\_radial\_then\_direct**

**UF\_PARAM\_turn\_gohome\_method\_clear\_axial\_then\_direct**

---

## **UF\_PARAM\_turn\_local\_adjustment\_mode\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_local_adjustment_mode_t`

### **Overview**

@HEAD UF\_PARAM\_TURN\_LOCAL\_ADJUSTMENT\_MODE\_INDEX EXT

Description:  
Defines the Local Return Adjustment mode.

Type: `UF_PARAM_type_int`

Name: Local Return Adjustment Mode

Possible Values: `UF_PARAM_turn_local_adjustment_mode_t`

Developer: Oliver Bruegge

### **Data Members**

**UF\_PARAM\_turn\_local\_adjustment\_mode\_range = 0**

**UF\_PARAM\_turn\_local\_adjustment\_mode\_alignment**

---

## **UF\_PARAM\_turn\_local\_dwell\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_local_dwell_t`

### **Data Members**

**UF\_PARAM\_turn\_local\_dwell\_seconds = 0**

**UF\_PARAM\_turn\_local\_dwell\_revolutions**

---

## **UF\_PARAM\_turn\_local\_limit\_mode\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_local_limit_t`

### **Overview**

@HEAD UF\_PARAM\_TURN\_LOCAL\_LOWER\_LIMIT\_MODE\_INDEX EXT

Description:

Defines the lower limit mode of Local Return adjustment.

Type: `UF_PARAM_type_int`

Name: Local Return Lower Limit Percent

Possible Values: `UF_PARAM_turn_local_limit_t`

Developer: Oliver Bruegge

### **Data Members**

**UF\_PARAM\_turn\_local\_limit\_distance\_or\_time = 0**

**UF\_PARAM\_turn\_local\_limit\_percent**

---

## **UF\_PARAM\_turn\_local\_mode\_e** ([view source](#))

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_local_mode_t`

### **Data Members**

**UF\_PARAM\_turn\_local\_mode\_distance = 0**

**UF\_PARAM\_turn\_local\_mode\_time = 1**



**UF\_PARAM\_turn\_local\_mode\_no\_of\_passes = 2**

**UF\_PARAM\_turn\_local\_mode\_no\_of\_cuts = 2**

**UF\_PARAM\_turn\_local\_mode\_no\_of\_levels = 3**

---

## **UF\_PARAM\_turn\_mach\_init\_track\_e** [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_mach_init_track_t`

### **Overview**

`UF_PARAM_type_int`

### **Data Members**

**UF\_PARAM\_turn\_mach\_init\_track\_left = 0**

**UF\_PARAM\_turn\_mach\_init\_track\_right**

---

## **UF\_PARAM\_turn\_multiple\_cut\_regions\_e** [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_multiple_cut_regions_t`

### **Data Members**

**UF\_PARAM\_turn\_multiple\_cut\_regions\_single\_direction = 0**

**UF\_PARAM\_turn\_multiple\_cut\_regions\_inverse\_direction**

**UF\_PARAM\_turn\_multiple\_cut\_regions\_bi\_directional**

**UF\_PARAM\_turn\_multiple\_cut\_regions\_alternate**

## UF\_PARAM\_turn\_relief\_plunge\_unit\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_turn\_relief\_plunge\_unit\_t

### Overview

UF\_PARAM\_type\_double

### Data Members

UF\_PARAM\_turn\_relief\_plunge\_unit\_distance = 0

UF\_PARAM\_turn\_relief\_plunge\_unit\_percent

---

## UF\_PARAM\_turn\_removal\_inc\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

UF\_PARAM\_turn\_removal\_inc\_type\_constant = 0

UF\_PARAM\_turn\_removal\_inc\_type\_variable

---

## UF\_PARAM\_turn\_ret\_1plunge\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_turn\_ret\_1plunge\_t

### Overview

UF\_PARAM\_type\_int

### Data Members

UF\_PARAM\_turn\_ret\_1plunge\_undefined = -1

UF\_PARAM\_turn\_ret\_1plunge\_auto\_linear = 1

**UF\_PARAM\_turn\_ret\_1plunge\_vector = 2**

**UF\_PARAM\_turn\_ret\_1plunge\_angle\_distance = 3**

---

## UF\_PARAM\_turn\_ret\_level\_blank\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_ret_level_blank_t`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_turn\_ret\_level\_blank\_undefined = -1**

**UF\_PARAM\_turn\_ret\_level\_blank\_auto\_linear = 1**

**UF\_PARAM\_turn\_ret\_level\_blank\_vector = 2**

**UF\_PARAM\_turn\_ret\_level\_blank\_angle\_distance = 3**

**UF\_PARAM\_turn\_ret\_level\_blank\_point = 5**

---

## UF\_PARAM\_turn\_ret\_level\_part\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_ret_level_part_t`

### Overview

UF\_PARAM\_type\_int

### Data Members

**UF\_PARAM\_turn\_ret\_level\_part\_undefined = -1**

**UF\_PARAM\_turn\_ret\_level\_part\_auto\_linear = 1**

**UF\_PARAM\_turn\_ret\_level\_part\_vector = 2**

**UF\_PARAM\_turn\_ret\_level\_part\_angle\_distance = 3**

**UF\_PARAM\_turn\_ret\_level\_part\_point = 5**

**UF\_PARAM\_turn\_ret\_level\_part\_two\_circles = 6**

---

## UF\_PARAM\_turn\_ret\_plunge\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_ret_plunge_t`

### Overview

`UF_PARAM_type_int`

### Data Members

**UF\_PARAM\_turn\_ret\_plunge\_undefined = -1**

**UF\_PARAM\_turn\_ret\_plunge\_auto\_linear = 1**

**UF\_PARAM\_turn\_ret\_plunge\_vector = 2**

**UF\_PARAM\_turn\_ret\_plunge\_angle\_distance = 3**

---

## UF\_PARAM\_turn\_ret\_profiling\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_ret_profiling_t`

### Overview

`UF_PARAM_type_int`

### Data Members

**UF\_PARAM\_turn\_ret\_profiling\_undefined = -1**

**UF\_PARAM\_turn\_ret\_profiling\_auto\_circular = 0**

**UF\_PARAM\_turn\_ret\_profiling\_auto\_linear = 1**

**UF\_PARAM\_turn\_ret\_profiling\_vector = 2**

**UF\_PARAM\_turn\_ret\_profiling\_angle\_distance = 3**

**UF\_PARAM\_turn\_ret\_profiling\_rel\_linear = 4**

**UF\_PARAM\_turn\_ret\_profiling\_point = 5**

---

## **UF\_PARAM\_turn\_return\_method\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Overview**

UF\_PARAM\_type\_int

### **Data Members**

**UF\_PARAM\_turn\_return\_method\_automatic = 0**

**UF\_PARAM\_turn\_return\_method\_direct**

**UF\_PARAM\_turn\_return\_method\_radial\_then\_axial**

**UF\_PARAM\_turn\_return\_method\_axial\_then\_radial**

**UF\_PARAM\_turn\_return\_method\_clear\_radial\_then\_direct**

**UF\_PARAM\_turn\_return\_method\_clear\_axial\_then\_direct**

**UF\_PARAM\_turn\_return\_method\_clear\_radial\_only**

**UF\_PARAM\_turn\_return\_method\_clear\_axial\_only**

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## **UF\_PARAM\_turn\_reversal\_mode\_e** [\(view source\)](#)

Defined in: `uf_param_indices.h`

**Also known as:**

- UF\_PARAM\_turn\_reversal\_mode\_t

## Data Members

UF\_PARAM\_turn\_reversal\_mode\_as\_level = 0

UF\_PARAM\_turn\_reversal\_mode\_inverse = 1

UF\_PARAM\_turn\_reversal\_mode\_closest = 2

UF\_PARAM\_turn\_reversal\_mode\_cut\_later = 3

UF\_PARAM\_turn\_reversal\_mode\_omit = 4

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## UF\_PARAM\_turn\_start\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_double\_length

## Data Members

UF\_PARAM\_turn\_start\_method\_direct = 0

UF\_PARAM\_turn\_start\_method\_radial\_then\_axial

UF\_PARAM\_turn\_start\_method\_axial\_then\_radial

UF\_PARAM\_turn\_start\_method\_clear\_radial\_then\_direct

UF\_PARAM\_turn\_start\_method\_clear\_axial\_then\_direct

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## UF\_PARAM\_turn\_start\_of\_engage\_method\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_int

## Data Members

**UF\_PARAM\_turn\_start\_of\_engage\_method\_automatic = 0**

**UF\_PARAM\_turn\_start\_of\_engage\_method\_direct**

**UF\_PARAM\_turn\_start\_of\_engage\_method\_radial\_then\_axial**

**UF\_PARAM\_turn\_start\_of\_engage\_method\_axial\_then\_radial**

**UF\_PARAM\_turn\_start\_of\_engage\_method\_clear\_radial\_then\_direct**

**UF\_PARAM\_turn\_start\_of\_engage\_method\_clear\_axial\_then\_direct**

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## UF\_PARAM\_turn\_step\_value\_unit\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_step_value_unit_t`

### Overview

Obsolete in NX6

### Data Members

**UF\_PARAM\_turn\_step\_value\_unit\_length = 0**

**UF\_PARAM\_turn\_step\_value\_unit\_percentage**

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## UF\_PARAM\_turn\_stepover\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- `UF_PARAM_turn_stepover_t`

### Overview

Param\_type\_int

### Data Members

**UF\_PARAM\_turn\_stepover\_level\_constant = 0**

**UF\_PARAM\_turn\_stepover\_level\_var\_max = 1**

**UF\_PARAM\_turn\_stepover\_level\_var\_avg = 2**

**UF\_PARAM\_turn\_stepover\_level\_no\_of\_levels = 3**

**UF\_PARAM\_turn\_stepover\_level\_individual = 4**

**UF\_PARAM\_turn\_stepover\_ramp\_constant = 0**

**UF\_PARAM\_turn\_stepover\_ramp\_var\_max = 1**

**UF\_PARAM\_turn\_stepover\_ramp\_var\_avg = 2**

**UF\_PARAM\_turn\_stepover\_contour\_constant = 0**

**UF\_PARAM\_turn\_stepover\_contour\_no\_of\_levels = 1**

**UF\_PARAM\_turn\_stepover\_contour\_individual = 2**

**UF\_PARAM\_turn\_stepover\_plunge\_constant = 0**

**UF\_PARAM\_turn\_stepover\_plunge\_var\_max = 1**

**UF\_PARAM\_turn\_stepover\_plunge\_var\_avg = 2**

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## **UF\_PARAM\_turn\_trim\_point\_type\_t** [\(view source\)](#)

Defined in: `uf_param_indices.h`

### **Data Members**

**UF\_PARAM\_trim\_point\_off\_geom\_check\_off = 0**

**UF\_PARAM\_trim\_point\_on\_geom\_check\_off**

**UF\_PARAM\_trim\_point\_off\_geom\_check\_on**

**UF\_PARAM\_trim\_point\_on\_geom\_check\_on**



## UF\_PARAM\_turn\_workpiece\_direction\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_workpiece_direction_towards_head_stock = -1`

`UF_PARAM_turn_workpiece_direction_from_head_stock = 1`

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## UF\_PARAM\_turn\_workpiece\_type\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Data Members

`UF_PARAM_turn_workpiece_type_undefined = -1`

`UF_PARAM_turn_workpiece_type_cylinder = 0`

`UF_PARAM_turn_workpiece_type_tube = 1`

`UF_PARAM_turn_workpiece_type_curves = 3`

`UF_PARAM_turn_workpiece_type_workspace = 6`

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## UF\_PARAM\_uncut\_display\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

`UF_PARAM_type_2d_length`

### Data Members

`UF_PARAM_uncut_region_display_off = 0`

`UF_PARAM_uncut_region_display_on = 1`

## UF\_PARAM\_up\_down\_extend\_t [\(view source\)](#)

Defined in: `uf_param_indices.h`

### Overview

UF\_PARAM\_type\_logical

### Data Members

UF\_PARAM\_up\_down\_extend\_off

UF\_PARAM\_up\_down\_extend\_on

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## UF\_PARAM\_use\_previous\_ipw\_e [\(view source\)](#)

Defined in: `uf_param_indices.h`

Also known as:

- UF\_PARAM\_use\_previous\_ipw\_t

### Overview

UF\_PARAM\_type\_double\_length

### Data Members

UF\_PARAM\_use\_previous\_ipw\_no = 0

UF\_PARAM\_use\_previous\_ipw\_yes = 1

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## UF\_TURN\_cut\_regions\_location\_e [\(view source\)](#)

Defined in: `uf_turn.h`

Also known as:

- UF\_TURN\_cut\_regions\_location\_t
- UF\_TURN\_cut\_regions\_location\_p\_t

### Overview

Types for cut region detection in turning.

### Data Members

UF\_TURN\_CUT\_REGIONS\_LOCATED\_UNDEFINED = 0

**UF\_TURN\_CUT\_REGIONS\_LOCATED\_ON\_NEAR\_SIDE\_OF\_CENTERLINE**

**UF\_TURN\_CUT\_REGIONS\_LOCATED\_ON\_FAR\_SIDE\_OF\_CENTERLINE**

**UF\_TURN\_CUT\_REGIONS\_LOCATED\_ON\_BOTH\_SIDES\_OF\_CENTERLINE**

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## UF\_UDE\_param\_toggle\_e [\(view source\)](#)

Defined in: `uf_ude.h`

Also known as:

- `UF_UDE_param_toggle_t`

### Overview

These are the possible values that an optional parameter of a User Defined Machine Control Event can have.

### Data Members

**UF\_UDE\_PARAM\_INACTIVE**

**UF\_UDE\_PARAM\_ACTIVE**

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## UF\_UDE\_param\_type\_e [\(view source\)](#)

Defined in: `uf_ude.h`

Also known as:

- `UF_UDE_param_type_t`

### Overview

A User Defined Machine Control Event parameter can be one of the following type.

NOTE: For asking or setting the value of a parameter of type `UF_UDE_PARAM_TYPE_OPTION` use the `UF_UDE_ask_string` and `UF_UDE_set_string` functions.

### Data Members

**UF\_UDE\_PARAM\_TYPE\_INT**

**UF\_UDE\_PARAM\_TYPE\_DOUBLE**

**UF\_UDE\_PARAM\_TYPE\_STRING**

**UF\_UDE\_PARAM\_TYPE\_BOOLEAN**

**UF\_UDE\_PARAM\_TYPE\_OPTION**

**UF\_UDE\_PARAM\_TYPE\_POINT**

**UF\_UDE\_PARAM\_TYPE\_VECTOR**

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## **UF\_UDE\_set\_type\_e** ([view source](#))

**Defined in:** `uf_ude.h`

**Also known as:**

- `UF_UDE_set_type_t`

### **Overview**

These are the possible type of Machine Control Sets.

the following set type is applicable only to Machine Control Operations

`UF_UDE_MACH_CNTRL_OPER_SET`

and the following are applicable to all other Operations and Group objects

`UF_UDE_START_SET`

`UF_UDE_END_SET`

### **Data Members**

**UF\_UDE\_START\_SET**

**UF\_UDE\_END\_SET**

**UF\_UDE\_MACH\_CNTRL\_OPER\_SET**

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