Flags

The structure `parameter_description` has an element `flags` that contains information about the status of the parameter. Also the functions `nni_init_parm*` allow specifying some of these flags whe initializing a parameter. The individual flags can be combined with a logical `OR` in the element `flags`. The following flags are defined in the header file *natni.h*. This file is contained in the directory *NATDIR:[F$Trnlnm("NATVERS").samples.sysexnni]*.

Return Code	Meaning
`NNI_FLG_PROTECTED`	Parameter is write protected.
`NNI_FLG_DYNAMIC (*)`	Parameter is dynamic (variable length or x-array).
`NNI_FLG_NOT_CONTIG (*)`	Array is not contiguous.
`NNI_FLG_AIV (*)`	Parameter is an AIV or INDEPENDENT variable.
`NNI_FLG_DYNVAR (*)`	Parameter has variable length.
`NNI_FLG_XARRAY (*)`	Parameter is an x-array.
`NNI_FLG_LBVAR_0`	Lower bound of dimension 0 is variable.
`NNI_FLG_UBVAR_0`	Upper bound of dimension 0 is variable.
`NNI_FLG_LBVAR_1`	Lower bound of dimension 1 is variable.
`NNI_FLG_UBVAR_1`	Upper bound of dimension 1 is variable.
`NNI_FLG_LBVAR_2`	Lower bound of dimension 2 is variable.
`NNI_FLG_UBVAR_2`	Upper bound of dimension 2 is variable.

Only the flags marked with `(*)` can be explicitly set in the functions `nni_init_parm*`. The other flags are automatically set by the interface according to the type of the parameter.

If one of the `NNI_FLG_*VAR*` flags is set, the array is an x-array. In each dimension of an x-array only the lower bound or the upper bound, not both, can be variable. Therefore for instance the flag `NNI_FLG_LBVAR_0` may not be combined with `NNI_FLG_UBVAR_0`.

If `NNI_FLG_DYNAMIC` is on, also `NNI_FLG_DYNVAR`, `NNI_FLG_XARRAY` or both are on. If both are on, the parameter is an x-array with elements of variable length.