If the call was not successful, an error code is returned.

ERROR CONDITIONS

Too many partitions.

NOTES

Not callable from ISR.

2.7.9 PT_IDENT

NAME

pt_ident - "Obtain id of a Partition"

SYNOPSIS

```
#include < memory.h >
uint pt_ident ( name, node, &ptid )
```

```
uint name; /* user defined 4-byte partition name */
uint node; /* node identifier */
/* 0 indicates any node */
uint ptid; /* partition id - returned by this call */
```

DESCRIPTION

This directive allows a task to identify a previously created partition by name and obtain the ptid to use for pt_getbuf and pt_retbuf directives for the partition.

If the partition name is not unique, the ptid returned Lay not correspond to the partition named in this call.

The partition may have been created by the local processor or any remote processor in a multiprocessor configuration, as long as the partition was created with the GLOBAL flags value set (see pt_create). If the partition name is not unique within the multiprocessor configuration, a non-sero node identifier must be specified in the node field.

RETURN VALUE

If pt_ident directive succeeds, the ptid will be filled in and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

Named partition does not exist.

Invalid node identifier.

NOTES

Can be called from within an ISR.

3.7.10 PT_DELETE

NAME

pt_delete - "Delete a Partition"

SYNOPSIS

#include <memory.h>
uint pt_delete (ptid)

uint ptid; /* partition id as returned by pt_create or pt_ident */

DESCRIPTION

This directive removes a partition, provided that none of its buffers is still allocated.

After this directive has successfully executed, the executive will reject any pt_getbuf or pt_retbuf directives for the partition.

The partition must exist on the local processor. If the partition was created with the GLOBAL flags value set in a multiprocessor configuration, a notification will be sent to all processors in the system, so the *ptid* can be deleted from the global resource table.

RETURN VALUE

If pt_delete successfully removed the partition, then 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

Invalid ptid.

Cannot delete - some buffers in use.

Partition not created from local node.

NOTES

Not callable from ISR.

3.7.11 PT_GETBUF

NAME

pt_getbuf - "Get a Buffer"

SYNOPSIS

#include < memory.h >
uint pt_getbuf (ptid, &bufaddr)

```
uint ptid; /* partition id as returned by pt_create or pt_ident */
char *bufaddr; /* buffer address - returned by this call */
```

DESCRIPTION

The pt_getbuf directive will get a buffer from a buffer partition. The buffer address will be returned in bufaddr as a result of this call.

The partition may have been created by the local processor or any remote processor in a multiprocessor configuration, as long as the partition was created with the GLOBAL flags value set (see pt_create).

RETURN VALUE

If pt_getbuf successfully got a buffer, then the address of the buffer is returned in bufaddr and 0 is returned.

If the call was not successful, an error code is returned.

ERROR CONDITIONS

Invalid ptid.

Partition out of free buffers.

NOTES

Can be called from within an ISR.

3.7.12 PT_RETBUF

NAME

pt_retbuf - "Return a Buffer"

SYNOPSIS

#include < memory.h>
uint pt_retbuf (ptid, bufaddr)

```
uint ptid; /* partition id as returned by pt_create or pt_ident */
char *bufaddr; /* buffer start address as returned by pt_getbuf */
```

DESCRIPTION

The pt_retbuf directive will return a buffer to the partition from which it was originally allocated.

Buffers are not automatically released when a task is deleted.

RETURN VALUE

If pt_retbuf successfully returned the buffer, then 0 is returned.

If the buffer was not returned, a value of -1 is returned, and errno is set to indicate the error.

ERROR CONDITIONS

Invalid ptid.

Buffer not from specified partition.

NOTES

Can be called from within an ISR.