NAME

ddi_map_regs, ddi_unmap_regs – map or unmap registers

SYNOPSIS

#include <sys/conf.h>
#include <sys/ddi.h>
#include <sys/sunddi.h>

int ddi_map_regs(dev_info_t **dip*, **u_int** *rnumber*, **caddr_t** **kaddrp*, **off_t** *offset*, **off_t** *len*);

void ddi_unmap_regs(dev_info_t **dip*, **u_int** *rnumber*, **caddr_t** **kaddrp*, **off_t** *offset*, **off_t** *len*);

ARGUMENTS

ddi_map_regs( )

dip	Pointer to the device's dev_info structure.
rnumber	Register set number.
kaddrp	Pointer to the base kernel address of the mapped region (set on return).
offset	Offset into register space.
len	Length to be mapped.

ddi_unmap_regs( )

dip	Pointer to the device's dev_info structure.
rnumber	Register set number.
kaddrp	Pointer to the base kernel address of the region to be unmapped.
offset	Offset into register space.
len	Length to be unmapped.

INTERFACE LEVEL

Solaris DDI specific (Solaris DDI).

DESCRIPTION

ddi_map_regs( ) maps in the register set given by *rnumber*. The register number determines which register set will be mapped if more than one exists. The base kernel virtual address of the mapped register set is returned in *kaddrp*. *offset* specifies an offset into the register space to start from and *len* indicates the size of the area to be mapped. If *len* is non-zero, it overrides the length given in the register set description. See the discussion of the **reg** property in **sbus**(4) and **vme**(4) for more information on register set descriptions. If *len* and *offset* are 0, the entire space is mapped.

ddi_unmap_regs( ) undoes mappings set up by **ddi_map_regs( )**. This is provided for drivers preparing to detach themselves from the system, allowing them to release allocated mappings. Mappings must be released in the same way they were mapped (a call to **ddi_unmap_regs( )** must correspond to a previous call to **ddi_map_regs( )).** Releasing portions of previous mappings is not allowed. *rnumber* determines which register set will be unmapped if more than one exists. The *kaddrp*, *offset* and *len* specify the area to be unmapped. *kaddrp* is a pointer to the address returned from **ddi_map_regs( )**; *offset* and *len* should match what **ddi_map_regs( )** was called with.

RETURN VALUES

ddi_map_regs( ) returns:

DDI_SUCCESS   on success.

CONTEXT

These functions can be called from user or interrupt context.

SEE ALSO

sbus(4), **vme**(4)

Writing Device Drivers