NAME

ddi_dma_segtocookie – convert a DMA segment to a DMA address cookie

SYNOPSIS

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

int ddi_dma_segtocookie(ddi_dma_seg_t *seg,* **off_t** **offp,* **off_t** **lenp,*
ddi_dma_cookie_t **cookiep***);**

ARGUMENTS

seg	A DMA *segment*.
offp	A pointer to an *off_t*. Upon a successful return, it is filled in with the offset. This segment is addressing within the object.
lenp	The byte length. This segment is addressing within the object.
cookiep	A pointer to a DMA *cookie* (see **ddi_dma_cookie**(9S)).

INTERFACE LEVEL

Solaris DDI specific (Solaris DDI).

DESCRIPTION

ddi_dma_segtocookie( ) takes a DMA segment and fills in the cookie pointed to by *cookiep* with the appropriate address, length, and bus type to be used to program the DMA engine. **ddi_dma_segtocookie( )** also fills in **offp* and **lenp*, which specify the range within the object.

RETURN VALUES

ddi_dma_segtocookie( ) returns:

DDI_SUCCESS	Successfully filled in all values.
DDI_FAILURE	Failed to successfully fill in all values.

CONTEXT

ddi_dma_segtocookie( ) can be called from user or interrupt context.

EXAMPLE

```
for (win = NULL; (retw = ddi_dma_nextwin(handle, win, &nwin)) !=
  DDI_DMA_DONE; win = nwin) {
        if (retw != DDI_SUCCESS) {

                /* do error handling */
        } else {
                for (seg = NULL; (rets = ddi_dma_nextseg(nwin, seg, &nseg)) !=
                  DDI_DMA_DONE; seg = nseg) {
                        if (rets != DDI_SUCCESS) {

                                /* do error handling */
                        } else {
                                ddi_dma_segtocookie(nseg, &off, &len, &cookie);

                                /* program DMA engine */
                        }
                }
```

```
                }
        }
```

SEE ALSO

ddi_dma_nextseg(9F), **ddi_dma_nextwin**(9F), **ddi_dma_sync**(9F), **ddi_dma_cookie**(9S)
Writing Device Drivers