NAME

pci_config_getb, pci_config_getw, pci_config_getl, pci_config_getll, pci_config_putb, pci_config_putw, pci_config_putl, pci_config_putll – read or write single datum of various sizes to the PCI Local Bus Configuration space

SYNOPSIS

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

uchar_t pci_config_getb(ddi_acc_handle_t *handle***, ulong_t** *offset***);**

ushort_t pci_config_getw(ddi_acc_handle_t *handle***, ulong_t** *offset***);**

ulong_t pci_config_getl(ddi_acc_handle_t *handle***, ulong_t** *offset***);**

unsigned long long pci_config_getll(ddi_acc_handle_t *handle***, ulong_t** *offset***);**

void pci_config_putb(ddi_acc_handle_t *handle***, ulong_t** *offset***, uchar_t** *value***);**

void pci_config_putw(ddi_acc_handle_t *handle***, ulong_t** *offset***, ushort_t** *value***);**

void pci_config_putl(ddi_acc_handle_t *handle***, ulong_t** *offset***, ulong_t** *value***);**

void pci_config_putll(ddi_acc_handle_t *handle***, ulong_t** *offset***,**
unsigned long long *value***);**

AVAILABILITY

PCI Local Bus

INTERFACE LEVEL

Solaris DDI specific (Solaris DDI).

ARGUMENTS

handle The data access handle returned from **pci_config_setup**(9F).

offset Byte offset from the beginning of the PCI Configuration space.

value Output data.

DESCRIPTION

These routines read/write a single datum of various sizes from/to the PCI Local Bus Configuration space. The **pci_config_getb( )**, **pci_config_getw( )**, **pci_config_getl( )**, and **pci_config_getll( )** functions read 8 bits, 16 bits, 32 bits, and 64 bits of data, respectively. The **pci_config_putb( )**, **pci_config_putw( )**, **pci_config_putl( )**, and **pci_config_putll( )** functions write 8 bits, 16 bits, 32 bits, and 64 bits of data, respectively. The *offset* argument must be a multiple of the datum size.

Since the PCI Local Bus Configuration space is represented in little endian data format, these functions translate the data from/to native host format to/from little endian format.

pci_config_setup(9F) must be called before invoking these functions.

RETURN VALUES

pci_config_getb( ), **pci_config_getw( )**, **pci_config_getl( )**, and **pci_config_getll( )** return the value read from the PCI Local Bus Configuration space.

CONTEXT

These routines can be called from user, kernel, or interrupt context.

SEE ALSO

pci_config_setup(9F), **pci_config_teardown**(9F)

NOTES

These functions are specific to PCI bus device drivers. For drivers using these functions, a single source to support devices with multiple bus versions may not be easy to maintain.