

## 4.6.2 MRAPI\_RESOURCE\_GET\_ATTRIBUTE

### NAME

mrapi\_resource\_get\_attribute

### SYNOPSIS

```
void mrapi_resource_get_attribute(
    MRAPI_IN mrapi_resource_t* resource,
    MRAPI_IN mrapi_uint_t attribute_num,
    MRAPI_OUT void* attribute,
    MRAPI_IN size_t attribute_size,
    MRAPI_OUT mrapi_status_t* status
);
```

### DESCRIPTION

mrapi\_resource\_get\_attribute() returns the attribute value at the point in time when this function is called (the value of an attribute may be dynamic in nature), given the input resource and attribute number. resource is a pointer to the respective resource, attribute\_num is the number of the attribute to query for that resource, and attribute\_size is the size of the attribute. Resource attributes are read-only. Attribute numbers are assigned by the MRAPI implementation and are specific to the given resource type (see Section 3.6.1).

The tables below show the valid attribute\_nums for each type of resource:

type of mrapi\_resource\_t = MRAPI\_RSRC\_MEM

attribute_num:	datatype:
MRAPI_RSRC_MEM_BASEADDR	mrapi_addr_t
MRAPI_RSRC_MEM_WORDSIZE	mrapi_uint_t
MRAPI_RSRC_MEM_NUMWORDS	mrapi_uint_t

type of mrapi\_resource\_t = MRAPI\_RSRC\_CACHE

attribute_num:	datatype:
MRAPI_RSRC_CACHE_SIZE	mrapi_uint_t
MRAPI_RSRC_CACHE_LINE_SIZE	mrapi_uint_t
MRAPI_RSRC_CACHE_ASSOCIATIVITY	mrapi_uint_t
MRAPI_RSRC_CACHE_LEVEL	mrapi_uint_t

type of mrapi\_resource\_t = MRAPI\_RSRC\_CPU

attribute_num:	datatype:
MRAPI_RSRC_CPU_FREQUENCY	mrapi_uint_t
MRAPI_RSRC_CPU_TYPE	char*
MRAPI_RSRC_CPU_ID	mrapi_uint_t

### RETURN VALUE

On success \*status is set to MRAPI\_SUCCESS and the attribute value is filled in. On error, \*status is set to the appropriate error defined below and the attribute value is undefined. The attribute identified by the attribute\_num is returned in the void\* attribute parameter.