23.21 vhpi_handle_by_index IEEE 1076-2008 p.407

Language Version: VHDL-2008

•Classification: LRM Correction

•Summary: One of the examples in LRM section 23.21 is incorrect.

•Relevant_LRM_Sections: 23.21

•Authors_Name:Radoslaw Nawrot

Is:

```
void exec_proc(vhpiCbDataT cbDatap) {
vhpiHandleT subpCallHdl, formal1, formalIt;
int val = 0;
vhpiValueT value;
value.format = vhpiIntVal;
value.value->integer = &val;
subpCallHdl = cbDatap->obj;
/* get a handle to the first formal parameter
of the subprogram call */
formal1 = vhpi_handle_by_index(vhpiParamDecls, subpCallHdl, 0);
switch(vhpi_get(vhpiModeP, formal1)) {
case vhpiIN:
vhpi_get_value(formal1, &value);
break;
case vhpiOUT:
vhpi_put_value(formal1, &value);
break;
default:
break;
}
}
```

Should be:

```
void exec_proc(vhpiCbDataT cbDatap)
 {
      vhpiHandleT subpCallHdl, formal1, formalIt;
      int val = 0;
      vhpiValueT value;
      value.format = vhpiIntVal;
      value.value.intg = &val;
      subpCallHdl = cbDatap->obj;
      /* get a handle to the first formal parameter
      of the subprogram call */
      formal1 = vhpi_handle_by_index(vhpiParamDecls, subpCallHdl, 0);
      switch(vhpi_get(vhpiModeP, formal1))
       {
            case vhpiIN:
                  vhpi_get_value(formal1, &value);
                  break;
            case vhpiOUT:
                  vhpi_put_value(formal1, &value, vhpiDepositPropagate);
                  break;
```

```
            default:
                  break;
      }
}
```