```
SoFPGA System                                           : T_PB_SYSTEM
o-SystemName                                            : T_PB_LONGNAME
o-SystemShort                                           : T_PB_SHORTNAME
o-DeviceInstances[T PB DEVICE INSTANCE INDEX]           : T_PB_DEVICE_INSTANCE_VECTOR
| o-DeviceName                                          : T_PB_LONGNAME
| o-DeviceShort                                         : T_PB_SHORTNAME
| o-Device                                              : T_PB_DEVICE
| | o-DeviceName                                        : T_PB_LONGNAME
| | o-DeviceShort                                       : T_PB_SHORTNAME
| | o-Registers[T PB REGISTER INDEX]                    : T_PB_REGISTER_VECTOR = 0..15
| | | o-RegisterName                                    : T_PB_LONGNAME
| | | o-RegisterShort                                   : T_PB_SHORTNAME
| | | o-RegisterNumber                                  : T_UINT_8
| | | o-RegisterKind                                    : T_PB_REGISTER_KIND = {PB_REGISTER_KIND_READ|WRITE|READWRITE|WRITEK}
| | | o-FieldMappings[T PB REGISTER FIELD MAPPING INDEX] : T_PB_REGISTER_FIELD_MAPPING_VECTOR = 0..15
| | |   o-FieldID                                       : T_UINT_8
| | |   o-Start                                         : T_UINT_8
| | |   o-Length                                        : T_UINT_8
| | |   o-MappingKind                                   : T_PB_REGISTER_FIELD_MAPPING_KIND = {PB_REGISTER_FIELD_MAPPING_KIND_READ|WRITE|WRITEK}
| | o-FieldMappingCount                                 : T_UINT_8
| | o-RegisterFields[T PB REGISTER FIELD INDEX]         : T_PB_REGISTER_FIELD_VECTOR = 0..15
| | | o-FieldName                                       : T_PB_LONGNAME
| | | o-FieldShort                                      : T_PB_SHORTNAME
| | | o-Length                                          : T_UINT_8
| | | o-AutoClear                                       : BOOLEAN
| | | o-FieldKind                                       : T_PB_REGISTER_FIELD_KIND = {PB_REGISTER_FIELD_KIND_READ|WRITE|READWRITE}
| | o-RegisterFieldCount                                : T_UINT_8
| | o-CreatesInterrupt                                  : BOOLEAN
| o-Mappings[T PB PORTNUMBER MAPPING INDEX]             : T_PB_PORTNUMBER_MAPPING_VECTOR = 0..23
| | o-PortNumber                                        : T_UINT_8
| | o-RegID                                             : T_UINT_8
| | o-RegisterNumber                                    : T_UINT_8
| | o-MappingKind                                       : T_PB_MAPPING_KIND = {PB_MAPPING_KIND_EMPTY|WRITE|WRITEK|READ}
| o-MappingCount                                        : T_UINT_8
| o-BusShort                                            : T_PB_SHORTNAME
o-DeviceInstanceCount                                   : T_PB_DEVICE_INSTANCE_INDEX = 0..31
o-Busses[T PB BUS INDEX]                                : T_PB_BUS_VECTOR
| o-BusName                                             : T_PB_LONGNAME
| o-BusShort                                            : T_PB_SHORTNAME
| o-SuperBusShort                                       : T_PB_SHORTNAME
| o-SuperBusID                                          : T_PB_BUSID  = 0..31
| o-SubBusCount                                         : NATURAL = 0..8
| o-SubBusses[0..7]                                     : T_PB_BUSID_VECTOR
| o-DeviceCount                                         : NATURAL = 0..32
| o-Devices[0..31]                                      : T_PB_DEVICEID_VECTOR
| o-TotalDeviceCount                                    : T_UINT_8
o-BusCount                                              : T_PB_BUS_INDEX = 0..11
```