

how to pass smart pointers to function.

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.cpp/2004-07/1130.html

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Hi,

I have a structure which and defined a smart pointer to the structure.

```
/* Structure of Begin Document Index Record */
```

```
typedef struct BDI_Struct{  
    unsigned char rname;  
    unsigned short int rlen;  
    int code;  
    short int reserved;  
    char indexName[9];  
    unsigned char tripLen;  
    unsigned char tripCode;  
    TRIPLET01 t01;  
}BDIStruct;
```

```
/* Structure of Index Element Record */
```

```
typedef struct record{  
    unsigned char rname;  
    unsigned short int rlen;  
    int code;  
    short int reserved;  
    unsigned char tripLen;  
    unsigned char tripCode;  
    union  
    {  
        TRIPLET01 t01;  
        TRIPLET57 t57;  
        TRIPLET2D t2D;  
        TRIPLET36 t36;  
        TRIPLET02 t02;  
        TRIPLET80 t80;  
        TRIPLETGEN tgen;  
    }TRec;  
}IndexStruct;
```

Defined the smart pointer as below:

where ObjVar returns the pointer.

```
typedef ObjVar<IELStruct> IELStruct_sptr;
```

comp.lang.c++. how to pass smart pointers to function.

```
typedef ObjVar<BDIStruct> BDIStruct_sptr;
```

Now when i am passing the smart pointers to the function i get compilation errors

I am passing the smart pointers as

```
int vValidateIndModcaFile(ObjVar<BDIStruct>& bdirec,ObjVar<IndexStruct>& ielrec);
```

Is it the right way to pass the smart pointers.

Could you plz guide me.

I am getting the errors like

```
"/vpapp/accenture/ISIXRelease1206302004/include/sptr.hpp", line 68.11:
1540-1101 (W) A return value of type "BDI_Struct *" is expected.
"/vpapp/accenture/ISIXRelease1206302004/include/sptr.hpp", line 63.12:
1540-0700 (I) The previous message was produced while processing
"ObjVar<BDI_Struct>::operator->()".
"IndOutModcaParser.cpp", line 1814.5: 1540-0700 (I) The previous message
was produced while processing
"CIndOutModcaParser::vValidateIndModcaFile(ObjVar<BDI_Struct> &,
ObjVar<record> &)".
"/vpapp/accenture/ISIXRelease1206302004/include/sptr.hpp", line 68.11:
1540-1101 (W) A return value of type "record *" is expected.
"/vpapp/accenture/ISIXRelease1206302004/include/sptr.hpp", line 63.12:
1540-0700 (I) The previous message was produced while processing
"ObjVar<record>::operator->()".
"IndOutModcaParser.cpp", line 1814.5: 1540-0700 (I) The previous message
was produced while processing
"CIndOutModcaParser::vValidateIndModcaFile(ObjVar<BDI_Struct> &,
ObjVar<record> &)"
```

Thanks,
Lokb