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Subject: Re: CALL\_EXTERNAL

Posted by [Mark Rivers](#) on Wed, 31 Jul 2002 02:26:02 GMT

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Zakaria Aygula <zaygula@med.miami.edu> wrote in message  
news:c934bc5c.0207300643.123066ce@posting.google.com...

> Hi all,

>

> I am not able to pass below strings from IDL 5.5 to c/c++ interface

> running on Red Hat Linux 7.3 2.96-110. The same code worked well on

> IDL 5.4 on solaris

> The fragment of the code is shown below.

>

> FUNCTION vgam\_wrap\_do\_query, query, dest

> FORWARD\_FUNCTION lib\_name, lib\_func\_name

The way IDL passes strings to CALL\_EXTERNAL has changed between IDL 5.4 and IDL 5.5, because the definition of an IDL\_STRING structure in export.h has changed. This is the IDL 5.5 definition:

```
typedef int IDL_STRING_SLEN_T;
```

```
#define IDL_STRING_MAX_SLEN 2147483647
```

```
typedef struct {          /* Define string descriptor */
```

```
    IDL_STRING_SLEN_T slen; /* Length of string, 0 for null */
```

```
    short stype;          /* type of string, static or dynamic */
```

```
    char *s;              /* Addr of string */
```

```
} IDL_STRING;
```

In IDL 5.4 IDL\_STRING\_SLEN\_T was "short", now it is "int", so strings can be much longer now. CALL\_EXTERNAL will still work, but you need to recompile your shareable library with the new version of export.h

Mark Rivers

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