

VC++.NET 2003 should not issue C4090 ompiler warning in the following case

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Hi,

I would like to understand what's going on here:

```
const void *foo[10];
```

```
void bar(void)
{
  // issues warning C4090: 'function' : different 'const' qualifiers
  memset(foo, 0, sizeof(const void *) * 10);
}
```

Why does the VC++ compiler (7.1.3088) issue a warning here? The foo array is not declared constant. Only the cell of the array is of type const void *.

This is my first question.

Now, if I replace the code with:

```
typedef void *MYTYPE;
typedef const MYTYPE MYCONSTTYPE;
```

```
MYCONSTTYPE foo[10];
```

```
memset(foo, 0, sizeof(const void *) * 10);
```

then no warning is issued, although the code looks quite identical.

How is this possible?