

### Using the pragma CONST\_SEG

The pragma "CONST\_SEG" defined in the compiler allows you to store your constant variables in a user defined ROM segment. The pragma "CONST\_SEG" remains valid until the next CONST\_SEG pragma is encountered. If no segment is specified, the compiler assumes that the constant variables are allocated in the default segment ROM\_VAR.

**Syntax:**

```
#pragma CONST_SEG <segment_name>
```

To switch back to the segment ROM\_VAR (default segment for the allocation of constant data), use following syntax:

```
#pragma CONST_SEG DEFAULT
```

**Example of usage of the pragma**

*Compiler option "-Cc" is not used*

Variable definition	Allocated into segment
<pre>static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into segment DEFAULT_RAM</pre>
<pre>#pragma DATA_SEG MyVarSeg static int a; static const int c0 = 10;</pre>	<pre>into segment MyVarSeg into Segment MyVarSeg</pre>
<pre>#pragma DATA_SEG DEFAULT static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into Segment DEFAULT_RAM</pre>
<pre>#pragma DATA_SEG MyVarSeg #pragma CONST_SEG MyConstSeg static int a; static const int c0 = 10;</pre>	<pre>into segment MyVarSeg into segment MyVarSeg</pre>
<pre>#pragma DATA_SEG DEFAULT #pragma CONST_SEG MyConstSeg static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into Segment DEFAULT_RAM</pre>
<pre>#pragma DATA_SEG DEFAULT #pragma CONST_SEG DEFAULT static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into Segment DEFAULT_RAM</pre>

*Compiler option "-Cc" is used*

Variable definition	Allocated into segment
<pre>static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into segment ROM_VAR</pre>
<pre>#pragma DATA_SEG MyVarSeg static int a; static const int c0 = 10;</pre>	<pre>into segment MyVarSeg into Segment MyVarSeg</pre>
<pre>#pragma DATA_SEG DEFAULT static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into Segment ROM_VAR</pre>
<pre>#pragma DATA_SEG MyVarSeg #pragma CONST_SEG MyConstSeg static int a; static const int c0 = 10;</pre>	<pre>into segment MyVarSeg into segment MyConstSeg</pre>
<pre>#pragma DATA_SEG DEFAULT #pragma CONST_SEG MyConstSeg static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into Segment MyConstSeg</pre>
<pre>#pragma DATA_SEG DEFAULT #pragma CONST_SEG DEFAULT static int a; static const int c0 = 10;</pre>	<pre>into segment DEFAULT_RAM into Segment ROM_VAR</pre>