



## Checklist for using IAC Modules with AVS/Express

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# 1 Introduction

This document gives an overview what is necessary in order to use IAC modules within AVS/Express. It describes the necessary environment in MS Windows<sup>1</sup> and Unix systems.

## 2 MS Windows

### 2.1 Environment Variables for MS Visual Studio 6.0

To use IAC modules within AVS/Express they have to be recompiled using the MS Visual Studio compilers. The easiest way of compiling modules for AVS/Express is to run the

```
base -comp_proc express -quit
```

command from the windows command prompt. This command executes a series of steps, which use the MS Visual Studio command line tools (nmake and cl). These tools need the following environment variables to be set:

```
include= C:\Program Files\Microsoft Visual Studio\VC98\atl\include;  
         C:\Program Files\Microsoft Visual Studio\VC98\mfc\include;  
         C:\Program Files\Microsoft Visual Studio\VC98\include  
  
lib= C:\Program Files\Microsoft Visual Studio\VC98\mfc\lib; C:\Program  
     Files\Microsoft Visual Studio\VC98\lib  
  
MSDevDir=C:\Program Files\Microsoft Visual Studio\Common\MSDev98  
  
Path= C:\Program Files\Microsoft Visual Studio\Common\Tools\WinNT;  
      C:\Program Files\Microsoft Visual Studio\Common\MSDev98\Bin;  
      C:\Program Files\Microsoft Visual Studio\Common\Tools; C:\Program  
      Files\Microsoft Visual Studio\VC98\bin;%Path%
```

This can be checked using the `set` command in the windows command prompt. If these environment variables are not you can set them as user variables or run the `vcvars32.bat` file in the windows command prompt in order to set them for this command prompt window.

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<sup>1</sup> MS Windows NT4 and MS Windows 2000

## 2.2 Environment Variables for AVS/Express

AVS/Express relies on several environment variables in order to run. These variables tell AVS/Express where it can find its binaries and license, and which kind of license it is looking for.

AVS/Express needs the following Environment Variables:

```
LM_LICENSE_FILE=c:\flexlm\license.dat
MACHINE=PC
Path=C:\Express\BIN\PC;C:\Express\RUNTIME\BIN\PC;%Path%
XP_FEATURE=VIZ_EXPRESS
XP_ROOT=C:\Express
```

## 3 UNIX

The user who wants to use AVS/Express needs to have access to the compiler recommended by AVS. This can be different for different Unix systems<sup>2</sup>. Please see the AVS/Express manuals for more detailed information on the recommended compilers.

Furthermore the user needs to have the following Environment Variables set according to his system:

```
LM_LICENSE_FILE=
MACHINE=
XP_ROOT=
XP_FEATURE=VIZ_EXPRESS
LD_LIBRARY_PATH=$XP_ROOT/lib/$MACHINE;$LD_LIBRARY_PATH
PATH=$XP_ROOT/bin/$MACHINE;$PATH
```

For more detailed information on the values for LM\_LICENSE\_FILE, MACHINE<sup>3</sup> and XP\_ROOT please ask your system administrator.

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<sup>2</sup> On SGI IRIX Systems the recommended C-compiler is `cc` and the recommended C++ compiler is `CC`.  
On Linux the recommended C-compiler is `gcc` and the recommended C++ compiler is `g++`.

<sup>3</sup> On SGI Systems this variable should be set to `sgN32` or `sg032` for 32-bit architectures or `sg6` for 64bit architectures.  
On Linux this variable should be set to `linux`.