

# Intel MSDOS tools

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The msdos directory contains a number of Intel's MSDOS based development tools. As they are ancient they will not directly run under 64 bit windows, so I have added an msdos wrapper around the tools to allow them to be used. The original 16 bit versions are the suffix \_16 added to the file name, in case you wish to run them under 32 bit windows or in an environment such as dosbox.

The applications themselves appear to have been written initially for iRMX / ISIS IV and to make them available MSDOS, the Intel UDI2DOS utility was used to encapsulate the applications in a wrapper that mapped iRMX UDI calls to MSDOS.

**The iRMX and UDIDOS wrapper do bring a serious limitation that you need to be aware of, because not only do they force the MSDOS 8.3 filename limitations, they also enforce names to be alphanumeric. This means that you cannot use any long filenames in the file path, even if MSDOS can manage them by mapping to names with ~ in them.**

Another limitation is that temporary files have fixed names, which means that the applications cannot be used in parallel builds. In the original MSDOS scenario wasn't a problem. To address this if you are using make to control builds do either of

1. Put the phony target .NOTPARALLEL into the makefile. This is the preferred option.
2. Do not use the make -j option to use parallel builds

## 8086 tools

The following tools are provided

```
asm86    versions 2.1 and 3.2
lib86     version 2.1
link86    version 3.1
loc86     version 2.5
oh86      version 1.0
```

## 80286 tools

```
asm286    version 1.3
bld286    version 3.2
bnd286    version 3.2
lib286    version 3.2
map286    version 3.2
ovl286    version 3.2
```

## Misc Tools

```
ipps      version 2.3 Intel's prom programming software
pcpplod   version 3.0
msdos.exe the msdos 16 bit emulation / wrapper
```

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