

Random IT Utensils

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Windows Research Kernel Part 4 – New module

AUGUST 11, 2018

“ This is the fourth part of the WRK series. For your convenience you can find other parts in the table of contents in [Part 1 – Compiling and debugging](#)

To create a new module, you need to prepare some directories and a make file. First, create the following structure in **base\ntos**

```
1 module
2 |- amd64
3 |- BUILD
4   |- objamd64
5   |- obji386
6 |- i386
```

Next, in **module\BUILD** put a **makefile** file building the module:

```
1 library = $(module)
2
3 !if "$(targ)" == "i386"
4 # Anything related to i386
5
6 asobjs= \
7   $(OBJ)\x86asmmodule.obj
8
9 ccarchobjs= \
10   $(OBJ)\x86cmodule.obj
11
12 !else
13 # Anything for amd64
14 !endif
15
16 ccobjs= \
17   $(OBJ)\module.obj
18
19 !include $(ntos)\BUILD\makefile.build
```

At the end, you need to tell the global makefile to include your module in the building process. Go to **base\ntos\makefile** and add your module in line 26 (list of modules modules = rtl ...).

Recompile and you are good to go.

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WRK

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