

Unix sytem
nm-objdump

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Contents

Administrative Details	4
Subject	ę
Forbidden functions	4
Allowed functions	ţ

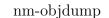




Administrative Details

- Your sources shall be turned-in on the PSU_year_nmobjdump directory ex: PSU_2013_nmobjdump for the 2013-2014 scolar year
- Your project shall be compiled with a unique Makefile.
- Your Makefile shall contain:
 - o a rule nm to compile your nm project
 - o a rule objdump to compile your objdump project
 - \circ a rule all to call the two rules above
- The projects binaries are:
 - o my_nm for the nm project
 - o my_objdump for the objdump project
- You shall do this project alone.







Subject

Unix sytem

- The goal is to code an equivalent to the "nm" and the "objdump" system commands, without the options.
- Your my_objdump shall have the same behavior than objdump -f -s
- You shall handle a variable number of parameters
- The display produced will be the one of your Fedora (bocal dump)
- The programs shall work with:
 - o relocatable files : .o and .a
 - o shared files: .so
 - executable files
- The other options "may" give you bonus.



Some options, deemed too easy or useless, may be ignored by the correctors

• The nm and objdump mans explain in detail how these commands work.



Indices

It is strongly recommended to try these functions to understand perfectly how they work



Indices

This project needs you to do research on the ELF format. Feel free to spend time on it.





Forbidden functions

- exec*
- system
- $\bullet\,$ all the functions allowing you to execute the system nm (or objdump)





nm-objdump



Allowed functions

• The C library without the forbidden functions

