SETUP

To set windbg as your default post-mortem debugger (run on crash of programs),

simply run windbg from the command line with the -I option:

C:\wherever\windbg.exe -I

CONTROL FLOW

- go / continue / run g

- step over р t - step into

(All further commands also work as ta, tc, tt, tct, th stepping in insted of over)

pa Oxaddress - step to address - step to next call рс pt - step to next return

- step to next call or return pct

- step to next branching instruction ph

BREAKPOINTS

bp 0xaddress - Set breakpoint bl - List breakpoints

bd num - disable breakpoint num bc num - clear breakpoitn num

ba [e|r|w] 1 0xaddress - break on access [execution|read|write]

size address

DUMP MEMORY

d[d|w|b|a] 0xaddress - dump [dword|word|byte|ascii] at address d[d|w|b|a] Oxaddress L5 - option L argument defines how many of

them to dump

dd register

dump contents of address, and whatever ddp 0xaddress

it points to

dda 0xaddress - dump contents of address, and print

the string if it exists

u Oxaddress L5 - disassemble at Oxaddress, L

instructions

e[d w b] 0xaddress newbytes - edit memory		
s -[d w b a] 0x00000	0000 L?0xffffffff searchval	
ascii string)	- first option is size (dword, word, byte,	
3,	- second option is start address	
	third option is end addresslast option is the value to search for	
	- ex dword: 0x41414141	
	ex word 0x4241ex byte ff e3 (can be as many as you	
like!)	car by cc 11 cs (can be as many as you	
	- ex ascii: avacado!	
.sympath .SRV*C:\sym	dump symbols in C:\sym m*http://msdl.microsoft.com/download/symbols/	
.sympath .SRV*C:\sym .reload /f		
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES	m*http://msdl.microsoft.com/download/symbols/	
.sympath .SRV*C:\sym .reload /f	m*http://msdl.microsoft.com/download/symbols/ dump thread environment block - dump process environment block	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump	m*http://msdl.microsoft.com/download/symbols/ - dump thread environment block - dump process environment block - dump list of memory pages and info	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename	m*http://msdl.microsoft.com/download/symbols/ dump thread environment block - dump process environment block	
.sympath .SRV*C:\sym .reload /f 	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k r dt structName 0xaddr	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack - show registers	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k r dt structName 0xaddr if you have symbols	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack - show registers	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k r dt structName 0xaddr if you have symbols	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack - show registers	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k r dt structName 0xaddr if you have symbols	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack - show registers	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k r dt structName 0xaddr	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack - show registers	
.sympath .SRV*C:\sym .reload /f DUMP STRUCTURES !teb !peb !vadump !lmi modulename lm k r dt structName 0xaddr if you have symbols	- dump thread environment block - dump process environment block - dump list of memory pages and info - dump the info for module modulename - show loaded modules - show call stack - show registers	

	COMMAND
	COMMAND
MEMORY	
	MEMORY / STACK

MEMORY - Virtual: set to esp to show the stack

If you want a generic memdump AND a constant stack, put another

memory window under

command - yes, you can have as many as you like

REGISTERS - I usually check both boxes in the configuration - changes show up on top and in red