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Gnu assembler tutorial pdf

```
mov 16(%r12), %rdi # argv[2] call atoi # y in eax cmp $0, %eax # disallow negative exponents jl error2 mov %eax, %r13d # y in r13d mov 8(%r12), %rdi # argv call atoi # x in eax mov %eax, %r14d # x in r14d mov $1, %eax # start with answer = 1 check: test %r13d, %r13d # we're counting y downto 0 jz gotit # done imul %r14d, %eax # multiply
in another x dec %r13d jmp check gotit: # print report on success mov $answer, %rdi movslq %eax, %rsi xor %rax, %rax call printf jmp done error1: # print error message mov $badArgumentCount, %edi call puts jmp done error2: # print error message mov $negativeExponent, %edi call puts done: # restore saved registers pop %r14 pop %r13 pop
%r12 ret answer: .asciz "%d" badArgumentCount: .asciz "Requires exactly two arguments" negativeExponent: .asciz "The exponent may not be negative" $ ./power 2 19 524288 $ ./power 3 -8 The exponent may not be negative $ ./power 1 500 1 Exercise: Rewrite this example to use 64-bit numbers everywhere. The only registers that the called
function is required to preserve (the callee-save registers) are: rbp, rbx, r12, r13, r14, r15. Note that we have to remember to replace the stack pointer before returning! .text .globl example example: sub $24, %rsp movl $7, 8(%rsp) mov %rdi, %rax imul 8(%rsp), %rax add %rsi, %rax add $24, %rsp ret Saturated Arithmetic The XMM registers can also
do arithmetic on integers. average.s# ----- # 64-bit program that treats all its command line arguments as integers and # displays their average as a floating point number. Here is a program that averages the command line arguments, expected to be integers, and displays the result as a floating point
number. */ #include <double.h> #include <stdio.h> #include <stdlib.h> #include <string.h> #include <unistd.h> int sum(double[], unsigned); int main() { double test[] = { 40.5, 26.7, 21.9, 1.5, -40.5, -23.4 }; printf("%20.7f", sum(test, 6)); printf("%20.7f", sum(test, 2)); printf("%20.7f", sum(test, 0)); printf("%20.7f", sum(test, 3)); return 0; } $ gcc callsum.c sum.s && ./a.out 26.7000000 67.2000000 0.0000000 89.1000000 The text section is
read-only on most operating systems, so you might find the need for a data section. The function has signature: # # int64_t maxofthree(int64_t x, int64_t y, int64_t z) # # Note that the parameters have already been passed in rdi, rsi, and rdx. 1 : n * factorial(n-1); } factorial.s# ----- # A 64-bit recursive
implementation of the function # # uint64_t factorial(unsigned n) # # implemented recursively # ----- .globl factorial .text factorial: cmp $1, %rdi # n
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