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; ===== BEGINNING OF PROCEDURE =====

; Variables:
; saved_fp: 0
; var_10: -16
; var_14: int32_t, -20
; var_18: int32_t, -24
; var_26: int64_t, -32
; var_24: int32_t, -36
; var_28: int32_t, -40
; var_2C: int32_t, -44
; var_30: int32_t, -48
; var_34: int32_t, -52
; var_38: int32_t, -56
; var_48: int64_t, -72
; var_50: int64_t, -80
; var_54: int32_t, -84
; var_58: int32_t, -88
; var_60: int64_t, -96
; var_68: int64_t, -104
; var_6C: int32_t, -108
; var_78: int64_t, -120
; var_80: int64_t, -128
; var_88: int64_t, -136
; var_90: int64_t, -144
; var_98: int64_t, -152
; var_A0: int64_t, -160
; var_A8: int64_t, -168
; var_B0: int64_t, -176
; var_B8: int64_t, -184
; var_BC: int32_t, -188
; var_C0: int64_t, -200
; var_D0: int64_t, -208
; var_D8: int64_t, -216
; var_E0: int64_t, -224

_main:
sub    sp, sp, #0x110
stp    x28, x27, [sp, #0xf0]
stp    x29, x30, [sp, #0x100]
add    x29, sp, #0x100
stur   w2r, [x29, var_14]
stur   w0, [x29, var_18]
stur   x1, [x29, var_20]
adrp   x8, #0x100003000 ; 0x1000034c8@PAGE
add    x8, x8, #0x4C8 ; 0x1000034c8@PAGEOFF, "-----\\n"
mov    x8, x8
str     x8, [sp, #0x100 + var_88]
bl     imp__stubs_printf ; printf
adrp   x8, #0x100003000 ; 0x1000034f1@PAGE
add    x8, x8, #0x4f1 ; 0x1000034f1@PAGEOFF, "Start inside Main\\n"
mov    x8, x8
bl     imp__stubs_printf ; printf
ldr     x8, [sp, #0x100 + var_88]
mov    x8, x8
bl     imp__stubs_printf ; printf
adrp   x8, #0x100003000 ; 0x100003504@PAGE
add    x8, x8, #0x504 ; 0x100003504@PAGEOFF, "Process: \\x1B[31mFuzzing M1 S3_6_c15_c1_5\\x1B[0m\\n"
mov    x8, x8
bl     imp__stubs_printf ; printf
sub     x8, x29, #0x40
mov    x8, x8
str     x8, [sp, #0x100 + var_90]
bl     imp__stubs__time ; time
ldr     x8, [sp, #0x100 + var_90]
mov    x8, x8
bl     imp__stubs__ctime ; ctime
adrp   x8, #0x100003000 ; 0x100003530@PAGE
add    x8, x8, #0x530 ; 0x100003530@PAGEOFF, "Today is \\x1B[0;35m%s\\x1B[0m\\n"
str     x0, [sp, #0x100 + var_98]
mov    x0, x8
mov    x8, sp
ldr     x9, [sp, #0x100 + var_98]
str     x9, [x8]
bl     imp__stubs_printf ; printf
ldr     x8, [sp, #0x100 + var_90]
mov    x8, x8
bl     imp__stubs__localtime ; localtime
stur   x0, [x29, var_48]
ldur   x8, [x29, var_48]
ldr     w10, [x8, #0x8]
stur   w10, [x29, var_24]
ldur   x8, [x29, var_48]
ldr     w10, [x8, #0x4]
stur   w10, [x29, var_28]
ldur   x8, [x29, var_48]
ldr     w10, [x8]
stur   w10, [x29, var_2C]
ldur   x8, [x29, var_48]
ldr     w10, [x8, #0xc]
stur   w10, [x29, var_30]
ldur   x8, [x29, var_48]
ldr     w10, [x8, #0x10]
add    w10, w10, #0x1
stur   w10, [x29, var_34]
ldur   x8, [x29, var_48]
ldr     w10, [x8, #0x14]
add    w10, w10, #0x76c
stur   w10, [x29, var_38]
ldur   w10, [x29, var_30]
mov    x0, x10
ldur   w10, [x29, var_34]
mov    x1, x10
ldur   w10, [x29, var_38]
mov    x2, x10
adrp   x8, #0x100003000 ; 0x100003548@PAGE
add    x8, x8, #0x548 ; 0x100003548@PAGEOFF, "Run Date (D/M/Y) = %02d/%02d/%d\\n"
str     x0, [sp, #0x100 + var_A0]
mov    x0, x8
mov    x8, sp
ldr     x9, [sp, #0x100 + var_A0]
str     x9, [x8]
str     x1, [x8, #0x8]
str     x2, [x8, #0x10]
bl     imp__stubs_printf ; printf
ldur   w10, [x29, var_24]
cmp     w10, #0xc
b.ge    loc_1000029b0

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ldur   w8, [x29, var_24]
mov     x0, x8
ldur   w8, [x29, var_28]
mov     x1, x8
ldur   w8, [x29, var_2C]
ldur   x2, x8
adrp   x9, #0x100003000 ; 0x100003569@PAGE
add     x9, x9, #0x569 ; 0x100003569@PAGEOFF, "MS Timer Start at %02d:%02d:%02d am\\n"
str     x0, [sp, #0x100 + var_A8]
mov     x0, x9
mov     x9, sp
ldr     x10, [sp, #0x100 + var_A8]
str     x10, [x9]
str     x1, [x9, #0x8]
str     x2, [x9, #0x10]
bl     imp__stubs_printf ; printf
b       loc_1000029f4

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loc_1000029b0:
ldur   w8, [x29, var_24] ; CODE XREF=_main+320
subs   w8, w8, #0xc
ldur   w9, [x29, var_28]
mov     x0, x9
ldur   w9, [x29, var_2C]
mov     x1, x9
adrp   x10, #0x100003000 ; 0x10000358e@PAGE
add     x10, x10, #0x58e ; 0x10000358e@PAGEOFF, "MS Timer Start at %02d:%02d:%02d pm\\n"
str     x0, [sp, #0x100 + var_B0]
mov     x0, x10
mov     x10, sp
mov     x2, x8
str     x2, [x10]
ldr     x11, [sp, #0x100 + var_B0]
str     x11, [x10, #0x8]
str     x1, [x10, #0x10]
bl     imp__stubs_printf ; printf

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loc_1000029f4:
adrp   x0, #0x100003000 ; 0x1000035b3@PAGE, argument "format" for method imp__stubs_printf, CODE XREF=_main+388
add     x0, x0, #0x5b3 ; 0x1000035b3@PAGEOFF, "-----\\n"
bl     imp__stubs_printf ; printf
bl     imp__stubs__clock ; clock
stur   x0, [x29, var_50]
adrp   x0, #0x100003000 ; 0x1000035cf@PAGE, argument "format" for method imp__stubs_printf
add     x0, x0, #0x5cf ; 0x1000035cf@PAGEOFF, "Now hitting main() struct sigaction\\n"
bl     imp__stubs_printf ; printf
adrp   x8, #0x100003000 ; 0x1000035f4@PAGE
add     x8, x8, #0x5f4 ; 0x1000035f4@PAGEOFF, "Now hitting main() sigfillset(&sa.sa_mask)\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
sub     x8, x29, #0x60
movn    w9, #0x0
stur   w9, [x29, var_58]
adrp   x10, #0x100003000 ; 0x100003620@PAGE
add     x10, x10, #0x620 ; 0x100003620@PAGEOFF, "Now hitting main() sa.sa_sigaction = bus_handler\\n"
mov     x0, x10
str     x8, [sp, #0x100 + var_B8]
bl     w9, [sp, #0x100 + var_BC]
imp__stubs_printf ; printf
adrp   x8, #0x100003000 ; 0x100002c50@PAGE
add     x8, x8, #0xc50 ; 0x100002c50@PAGEOFF, _bus_handler
stur   x8, [x29, var_60]
adrp   x8, #0x100003000 ; 0x100003652@PAGE
add     x8, x8, #0x652 ; 0x100003652@PAGEOFF, "Now hitting main() sa.sa_flags = SA_RESTART | SA_SIGINFO\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
movz    w9, #0x42
stur   w9, [x29, var_54]
adrp   x8, #0x100003000 ; 0x10000368c@PAGE
add     x8, x8, #0x68c ; 0x10000368c@PAGEOFF, "Now hitting main() sigaction SIGBUS, &sa, 0\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
movz    w9, #0xa
mov     x0, x9
ldr     x1, [sp, #0x100 + var_B8]
movz    x8, #0x0
mov     x2, x8
str     x8, [sp, #0x100 + var_C8]
bl     imp__stubs__sigaction ; sigaction
adrp   x8, #0x100003000 ; 0x1000036b9@PAGE
add     x8, x8, #0x6b9 ; 0x1000036b9@PAGEOFF, "Now hitting main() sa.sa_sigaction = sev_handler\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
adrp   x8, #0x100002000 ; 0x100002c98@PAGE
add     x8, x8, #0xc98 ; 0x100002c98@PAGEOFF, _sev_handler
stur   x8, [x29, var_60]
adrp   x8, #0x100003000 ; 0x1000036eb@PAGE
add     x8, x8, #0x6eb ; 0x1000036eb@PAGEOFF, "Now hitting main() sigaction SIGSEGV, &sa\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
movz    w9, #0xb
mov     x0, x9
ldr     x1, [sp, #0x100 + var_B8]
ldr     x2, [sp, #0x100 + var_C8]
bl     imp__stubs__sigaction ; sigaction
adrp   x8, #0x100003000 ; 0x100003716@PAGE
add     x8, x8, #0x716 ; 0x100003716@PAGEOFF, "Now hitting main() uint32_t*ptr = mmap(NULL, 0x4000, PROT_READ | PROT_WRITE | PROT_EXEC, MAP_PRIVATE | MAP_ANONYMOUS | MAP_JIT, -1, 0)\\n\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
ldr     x8, [sp, #0x100 + var_C8]
mov     x0, x8
movz    x1, #0x4000
movz    w2, #0x7
movz    w3, #0x1802
ldr     w4, [sp, #0x100 + var_BC]
movz    x10, #0xb
mov     x5, x10
bl     imp__stubs__mmap ; mmap
stur   x0, [x29, var_68]
adrp   x0, #0x100003000 ; 0x1000037a0@PAGE, argument "format" for method imp__stubs_printf
add     x0, x0, #0x7a0 ; 0x1000037a0@PAGEOFF, "Now hitting main() write_sprr_perm(0x3333333333333333)\\n\\n"
bl     imp__stubs_printf ; printf
orr     x8, xzr, #0x3333333333333333
mov     x0, x8
bl     _write_sprr_perm ; _write_sprr_perm
adrp   x0, #0x100003000 ; 0x1000037d9@PAGE, argument "format" for method imp__stubs_printf
add     x0, x0, #0x7d9 ; 0x1000037d9@PAGEOFF, "Just executed main() write_sprr_perm(0x3333333333333333)\\n\\n"
bl     imp__stubs_printf ; printf
adrp   x8, #0x100003000 ; 0x100003814@PAGE
add     x8, x8, #0x814 ; 0x100003814@PAGEOFF, "Now in main() hitting ptr[0] 0xd65f03c0 RET\\n\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
ldur   x8, [x29, var_68]
movz    w9, #0x3c0
movk    w9, #0xd65f, lsl #16
str     w9, [x8]
adrp   x0, #0x100003000 ; 0x100003842@PAGE
add     x0, x0, #0x842 ; 0x100003842@PAGEOFF, "Now in main() hitting for (int i = 0; i < 4; ++i)\\n\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
stur   w2r, [x29, var_6C]

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loc_100002b68:
ldur   w8, [x29, var_6C] ; CODE XREF=_main+900
cmp     w8, #0x4
b.ge    loc_100002bb0

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ldur   x0, [x29, var_68]
ldur   w8, [x29, var_6C]
and     w8, w8, #0xff
x0, [sp, #0x100 + var_D0]
mov     x0, x8
bl     _make_sprr_val ; _make_sprr_val
ldr     x9, [sp, #0x100 + var_D0]
str     w8, [sp, #0x100 + var_D8]
mov     x0, x9
ldr     x1, [sp, #0x100 + var_D8]
bl     _sprr_test ; _sprr_test
ldur   w8, [x29, var_6C]
add     w8, w8, #0x1
stur   w8, [x29, var_6C]
b       loc_100002b68

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loc_100002bb0:
bl     imp__stubs__clock ; clock, CODE XREF=_main+840
stur   x8, [x29, var_78]
ldur   x8, [x29, var_70]
ldur   x9, [x29, var_50]
ldur   x8, x8, x9
ucvtf   d0, x8
adrp   d1, [x8, #0x4c0] ; double_value_1000
fmuL    d0, d0, d1
adrp   d1, [x8, #0x4b8] ; double_value_1E06
ldr     d0, d0, d1
str     d0, [sp, #0x100 + var_80]
ldr     d0, [sp, #0x100 + var_80]
adrp   x0, #0x100003000 ; 0x100003876@PAGE
add     x0, x0, #0x876 ; 0x100003876@PAGEOFF, "Finished... Total Elapsed Time in ms: %f\\n\\n"
mov     x8, sp
str     d0, [x8]
bl     imp__stubs_printf ; printf
sub     x8, x29, #0x40
mov     x0, x8
bl     imp__stubs__ctime ; ctime
adrp   x8, #0x100003000 ; 0x1000038a1@PAGE
add     x8, x8, #0x8a1 ; 0x1000038a1@PAGEOFF, "End Time %s"
str     x0, [sp, #0x100 + var_E0]
mov     x0, x8
mov     x8, sp
ldr     x9, [sp, #0x100 + var_E0]
str     x9, [x8]
bl     imp__stubs_printf ; printf
adrp   x8, #0x100003000 ; 0x1000038ad@PAGE
add     x8, x8, #0x8ad ; 0x1000038ad@PAGEOFF, "Done.....\\n\\n\\n"
mov     x0, x8
bl     imp__stubs_printf ; printf
ldur   w10, [x29, var_14]
mov     x0, x10
ldp     x28, x30, [sp, #0x100]
ldp     x28, x27, [sp, #0xf0]
add     sp, sp, #0x110
ret

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