

CMA Debugfs Interface

The CMA debugfs interface is useful to retrieve basic information out of the different CMA areas and to test allocation/release in each of the areas.

Each CMA zone represents a directory under `<debugfs>/cma/`, indexed by the kernel's CMA index. So the first CMA zone would be:

```
<debugfs>/cma/cma-0
```

The structure of the files created under that directory is as follows:

- [RO] `base_pfn`: The base PFN (Page Frame Number) of the zone.
- [RO] `count`: Amount of memory in the CMA area.
- [RO] `order_per_bit`: Order of pages represented by one bit.
- [RO] `bitmap`: The bitmap of page states in the zone.
- [WO] `alloc`: Allocate N pages from that CMA area. For example:

```
echo 5 > <debugfs>/cma/cma-2/alloc
```

would try to allocate 5 pages from the `cma-2` area.

- [WO] `free`: Free N pages from that CMA area, similar to the above.