# **Memory Management APIs**

### **User Space Memory Access**

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 8)
Unknown directive type "kernel-doc".
```

```
.. kernel-doc:: arch/x86/include/asm/uaccess.h
:internal:
```

 $System\,Message: ERROR/3\, (\mbox{D:\nonloarding-resources}) ample-onboarding-resources \label{linux-master} \\ \mbox{master\nonloarding-resources} \label{linux-master} (\mbox{Documentation}) \mbox{ (core-api) mm-api.rst, line 11)} \\$ 

Unknown directive type "kernel-doc".

.. kernel-doc:: arch/x86/lib/usercopy\_32.c
:export:

 $System\,Message: ERROR/3\, (\mboarding-resources \sample-onboarding-resources \linux-master) \label{eq:complexity} \\ master\mboarding-resources \sample-onboarding-resources \linux-master) \line 14)$ 

Unknown directive type "kernel-doc".

```
.. kernel-doc:: mm/gup.c
:functions: get_user_pages_fast
```

## **Memory Allocation Controls**

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master) (Documentation) (core-api)mm-api.rst, line 22)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/gfp.h
:internal:
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master) (Documentation) (core-api)mm-api.rst, line 25)

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/gfp.h
   :doc: Page mobility and placement hints
```

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources\sample-onboarding-resources\linux-master\scalebox.})\ (\texttt{Documentation\core-api\(linux-master)}\ (\texttt{Documentation}\)\ (\texttt{core-api\mbox})\ mm-\texttt{api.rst},\ line\ 28)$ 

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/gfp.h
  :doc: Watermark modifiers
```

 $System\,Message: ERROR/3\, (\mbox{D:\nonlinear-resources}) ample-onboarding-resources \label{linux-master} \\ {\tt master\nonlinear-linux-master})\, (\mbox{Documentation})\, (\mbox{core-api})\, {\tt mm-api.rst}, \, \mbox{line}\, 31) \\ {\tt master\nonlinear-linux-master})\, (\mbox{Documentation})\, (\mbox{core-api})\, {\tt mm-api.rst}, \, \mbox{line}\, 31) \\ {\tt master\nonlinear-linux-master})\, (\mbox{Documentation})\, (\mbox{core-api})\, {\tt mm-api.rst}, \, \mbox{line}\, 31) \\ {\tt master\nonlinear-linux-master})\, (\mbox{Documentation})\, (\mbox{core-api})\, (\mbox{line}\, 31) \\ {\tt master\nonlinear-linux-master})\, (\mbox{Documentation})\, (\mbo$ 

Unknown directive type "kernel-doc".

```
.. kernel-doc:: include/linux/gfp.h
:doc: Reclaim modifiers
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 34)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/gfp.h
    :doc: Useful GFP flag combinations
```

#### The Slab Cache

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 40)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/slab.h
:internal:
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 43)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/slab.c
:export:
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master) (Documentation) (core-api)mm-api.rst, line 46)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/slab_common.c
:export:
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 49)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/util.c
    :functions: kfree_const kvmalloc_node kvfree
```

# Virtually Contiguous Mappings

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 55)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/vmalloc.c
:export:
```

# File Mapping and Page Cache

#### **Filemap**

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 64)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/filemap.c
:export:
```

#### Readahead

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 70)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/readahead.c
:doc: Readahead Overview
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 73)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/readahead.c
:export:
```

#### Writeback

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 79)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/page-writeback.c
:export:
```

#### Truncate

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 85)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/truncate.c
:export:
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-
master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 88)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/pagemap.h
:internal:
```

### Memory pools

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 94)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/mempool.c
:export:
```

# **DMA** pools

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 100)
Unknown directive type "kernel-doc".

.. kernel-doc:: mm/dmapool.c
:export:
```

# **More Memory Management Functions**

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 106)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/memory.c
 :export:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 109)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/page alloc.c

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 110)

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/mempolicy.c

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 111)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/mm\_types.h
:internal:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\(linux-master\) (Documentation) (core-api)mm-api.rst, line 113)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/mm inline.h

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 114)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/page-flags.h

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 115)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/mm.h
:internal:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\core-api\((linux-master)\) (Documentation) (core-api)mm-api.rst, line 117)

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/page ref.h

 $System\ Message:\ ERROR/3\ (\mbox{D:\noboarding-resources}\ \mbox{linux-master})\ (\mbox{Documentation}\ (\mbox{core-api}\ \mbox{linux-master})\ (\mbox{Documentation}\ (\mbox{core-api}\ \mbox{min-api.rst},\ \mbox{line}\ 118)$ 

Unknown directive type "kernel-doc".

.. kernel-doc:: include/linux/mmzone.h

 $System\,Message: ERROR/3~(\texttt{D:}\nonline) resources \verb|\sample-onboarding-resources| linux-master| (Documentation) (core-api)mm-api.rst, line~119)$ 

Unknown directive type "kernel-doc".

.. kernel-doc:: mm/util.c
 :functions: folio\_mapping