

# [PATCH 06/14] page-replace-move-macros.patch

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-12/msg08492.html>

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- *From:* Peter Zijlstra <a.p.zijlstra@xxxxxxxxxx>
  - *Date:* Fri, 30 Dec 2005 23:41:14 +0100
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From: Peter Zijlstra <a.p.zijlstra@xxxxxxxxxx>

Move some utility marco's to the new common header to they can be used by the code moved over to page\_replace.c

Signed-off-by: Peter Zijlstra <a.p.zijlstra@xxxxxxxxxx>

```
--- linux-2.6-git.orig/include/linux/mm_page_replace.h 2005-12-10 20:50:44.000000000 +0100
+++ linux-2.6-git/include/linux/mm_page_replace.h 2005-12-10 20:53:12.000000000 +0100
@@ -6,6 +6,36 @@
#include <linux/mmzone.h>
#include <linux/mm.h>

+#define lru_to_page(_head) (list_entry((_head)->prev, struct page, lru))
+
+#ifdef ARCH_HAS_PREFETCH
+#define prefetch_prev_lru_page(_page, _base, _field) \
+ do { \
+ if ((_page)->lru.prev != _base) { \
+ struct page *prev; \
+ \
+ prev = lru_to_page(&(_page->lru)); \
+ prefetch(&prev->_field); \
+ } \
+ } while (0)
+#else
+#define prefetch_prev_lru_page(_page, _base, _field) do { } while (0)
+#endif
+
+#ifdef ARCH_HAS_PREFETCHW
+#define prefetchw_prev_lru_page(_page, _base, _field) \
+ do { \
+ if ((_page)->lru.prev != _base) { \
+ struct page *prev; \
+ \
+ prev = lru_to_page(&(_page->lru)); \
+ prefetchw(&prev->_field); \
+ } \
+ }
```

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```
+ } while (0)
+ #else
+ #define prefetchw_prev_lru_page(_page, _base, _field) do { } while (0)
+ #endif
+
+ void __page_replace_insert(struct zone *, struct page *);
+ static inline void page_replace_activate(struct page *page)
+ {
+ --- linux-2.6-git.orig/mm/vmscan.c 2005-12-10 20:50:44.000000000 +0100
+ +++ linux-2.6-git/mm/vmscan.c 2005-12-10 20:53:12.000000000 +0100
+ @@ -104,36 +104,6 @@
+ long nr; /* objs pending delete */
+ };
+
+ #define lru_to_page(_head) (list_entry((_head)->prev, struct page, lru))
+
+ #ifndef ARCH_HAS_PREFETCH
+ #define prefetch_prev_lru_page(_page, _base, _field) \
+ - do { \
+ - if ((_page)->lru.prev != _base) { \
+ - struct page *prev; \
+ - \
+ - prev = lru_to_page(&(_page->lru)); \
+ - prefetch(&prev->_field); \
+ - } \
+ - } while (0)
+ #else
+ #define prefetch_prev_lru_page(_page, _base, _field) do { } while (0)
+ #endif
+
+ #ifndef ARCH_HAS_PREFETCHW
+ #define prefetchw_prev_lru_page(_page, _base, _field) \
+ - do { \
+ - if ((_page)->lru.prev != _base) { \
+ - struct page *prev; \
+ - \
+ - prev = lru_to_page(&(_page->lru)); \
+ - prefetchw(&prev->_field); \
+ - } \
+ - } while (0)
+ #else
+ #define prefetchw_prev_lru_page(_page, _base, _field) do { } while (0)
+ #endif
+
+ /*
+ * From 0 .. 100. Higher means more swappy.
+ */
+
+ To unsubscribe from this list: send the line "unsubscribe linux-kernel" in
+ the body of a message to majordomo@xxxxxxxxxxxxxxxxxxx
+ More majordomo info at http://vger.kernel.org/majordomo-info.html
```

Please read the FAQ at <http://www.tux.org/lkml/>

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- **References:**

- ◆ **[PATCH] vm: page-replace and clockpro**

- ◆ *From:* Peter Zijlstra

- Prev by Date: **[PATCH 04/14] page-replace-activate page.patch**
- Next by Date: **[PATCH 5/9] clockpro-ignore token.patch**
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