

[PATCH 13/14] page-replace-init.patch

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-12/msg08484.html>

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 - *Date:* Fri, 30 Dec 2005 23:42:24 +0100
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page-replace interface function:
page_replace_init_zone()

This function initialized the page replace specific members of struct zone.

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

include/linux/mm_page_replace.h | 1 +
mm/page_alloc.c | 6 ++-----
mm/page_replace.c | 8 ++++++++
3 files changed, 11 insertions(+), 4 deletions(-)

Index: linux-2.6-git/include/linux/mm_page_replace.h

```
=====
--- linux-2.6-git.orig/include/linux/mm_page_replace.h
+++ linux-2.6-git/include/linux/mm_page_replace.h
@@ -38,6 +38,7 @@
#define prefetchw_prev_lru_page(_page, _base, _field) do { } while (0)
#endif

+void __init page_replace_init_zone(struct zone *);
void __page_replace_insert(struct zone *, struct page *);
void page_replace_candidates(struct zone *, int, struct list_head *);
```

Index: linux-2.6-git/mm/page_alloc.c

```
=====
--- linux-2.6-git.orig/mm/page_alloc.c
+++ linux-2.6-git/mm/page_alloc.c
@@ -36,6 +36,7 @@
#include <linux/memory_hotplug.h>
#include <linux/nodemask.h>
#include <linux/vmalloc.h>
+#include <linux/mm_page_replace.h>

#include <asm/tlbflush.h>
```

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```
#include "internal.h"
@@ -2007,11 +2008,7 @@ static void __init free_area_init_core(s
zone->temp_priority = zone->prev_priority = DEF_PRIORITY;

zone_pcp_init(zone);
- INIT_LIST_HEAD(&zone->active_list);
- INIT_LIST_HEAD(&zone->inactive_list);
- zone->nr_scan_active = 0;
- zone->nr_active = 0;
- zone->nr_inactive = 0;
+ page_replace_init_zone(zone);
atomic_set(&zone->reclaim_in_progress, 0);
if (!size)
continue;
Index: linux-2.6-git/mm/page_replace.c
```

```
-----
--- linux-2.6-git.orig/mm/page_replace.c
+++ linux-2.6-git/mm/page_replace.c
@@ -22,6 +22,15 @@ static int __init page_replace_init(void

module_init(page_replace_init)

+void __init page_replace_init_zone(struct zone *zone)
+{
+ INIT_LIST_HEAD(&zone->active_list);
+ INIT_LIST_HEAD(&zone->inactive_list);
+ zone->nr_active = 0;
+ zone->nr_inactive = 0;
+ zone->nr_scan_active = 0;
+}
+
static inline void
add_page_to_inactive_list(struct zone *zone, struct page *page)
{
-
```

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• **References:**

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

- Prev by Date: **[PATCH 12/14] page-replace-rotate.patch**
- Next by Date: **[PATCH 9/9] clockpro-clockpro-stats.patch**
- Previous by thread: **[PATCH 12/14] page-replace-rotate.patch**
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- ◆ *Thread*