

[patch 1/7] Add exception handler for diagnose 224

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-05/msg13782.html>

- *From:* Martin Schwidefsky <schwidefsky@xxxxxxxxxx>
 - *Date:* Thu, 31 May 2007 16:20:25 +0200
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From: Michael Holzheu <holzheu@xxxxxxxxxx>

To be able to run with the diagnose 224 switched off, a potential specification exception has to be handled.

Signed-off-by: Michael Holzheu <holzheu@xxxxxxxxxx>

Signed-off-by: Martin Schwidefsky <schwidefsky@xxxxxxxxxx>

arch/s390/hypfs/hypfs_diag.c | 17 ++++++++-----
1 file changed, 14 insertions(+), 3 deletions(-)

Index: quilt-2.6/arch/s390/hypfs/hypfs_diag.c

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--- quilt-2.6.orig/arch/s390/hypfs/hypfs_diag.c
+++ quilt-2.6/arch/s390/hypfs/hypfs_diag.c
@@ -481,9 +481,17 @@ out:

/* Diagnose 224 functions */

```
-static void diag224(void *ptr)
+static int diag224(void *ptr)
{
- asm volatile("diag %0,%1,0x224" : : "d" (0), "d"(ptr) : "memory");
+ int rc = -ENOTSUPP;
+
+ asm volatile(
+ " diag %1,%2,0x224\n"
+ "0: lhi %0,0x0\n"
+ "1:\n"
+ EX_TABLE(0b,1b)
+ : "+d" (rc) : "d" (0), "d" (ptr) : "memory");
+ return rc;
}
```

```
static int diag224_get_name_table(void)
@@ -492,7 +500,10 @@ static int diag224_get_name_table(void)
diag224_cpu_names = kmalloc(PAGE_SIZE, GFP_KERNEL | GFP_DMA);
if (!diag224_cpu_names)
```

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```
return -ENOMEM;
- diag224(diag224_cpu_names);
+ if (diag224(diag224_cpu_names)) {
+ kfree(diag224_cpu_names);
+ return -ENOTSUPP;
+ }
EBCASC(diag224_cpu_names + 16, (*diag224_cpu_names + 1) * 16);
return 0;
}
```

—
blue skies,
Martin.

"Reality continues to ruin my life." – Calvin.

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