

---

Subject: pointer handling in base/source/swaplw.c can fail on 64 bit systems

Posted by [Volker Frieze](#) on Wed, 28 Jan 2015 18:15:49 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Bug report of W. Müller, forwarded from the CbmRoot redmine:

The 1995 vintage code in base/source/swaplw.c uses the construct

```
switch ( (int) p_dest)
{
    case 0:      /* source == destination /
    ...
    default:     / source != destination */
    ....
}
```

The pointer to int cases causes a

warning: cast from pointer to integer of different size [-Wpointer-to-int-cast]

warning in gcc. This construct will fail when p\_dest is exactly on a 4 GB border, in that case p\_dest is != 0 but the cast int will be zero (taking the lower 32 bit only). Unlikely, but possible.

This should be rephrased as

```
if (p_dest) {
    ....
} else {
    ....
}
```

---

Subject: Re: pointer handling in base/source/swaplw.c can fail on 64 bit systems

Posted by [Dmytro Kresan](#) on Thu, 29 Jan 2015 10:13:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hello Volker,  
I will implement the changes you proposed.  
Best regards,  
Dima

---