

How to duplicate a build of the kernel in the RPM

Source: <http://linux.derkeiler.com/Mailing-Lists/RedHat/2003-12/1268.html>

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I am trying to build the same kernel which came with the RPM from the SRPM for 2.4.20-27.9

It is failing, and I have documented the process below. Comments?

up2date loaded the RPM for the kernel and source for 2.4.20-27.9

I wanted to build, hence duplicate the kernel which was distributed with the kernel RPM.

I linked /usr/src/linux to the source directory for 2.4.20-27.9 and ran the following commands

```
make clean
make mrproper
make clean
make xconfig
```

```
cp /usr/src/linux/configs/kernel-2.4.20-i686.config .config
```

```
make dep
```

```
make bzImage
```

It ran for a while, and then died with the error below.

Did I do anything incorrectly?

Thanks

```
gcc -D__KERNEL__ -I/usr/src/linux-2.4.20-27.9/include -Wall -Wstrict-prototypes -Wno-trigraphs -O2
-fno-strict-aliasing -fno-common -fomit-frame-pointer -pipe -mpreferred-stack-boundary=2
-march=i686 -nostdinc -iwithprefix include -DKBUILD_BASENAME=apm -DEXPORT_SYMTAB -c
apm.c
{standard input}: Assembler messages:
{standard input}:248: Warning: indirect lcall without `*'
{standard input}:352: Warning: indirect lcall without `*'
```

RedHat: How to duplicate a build of the kernel in the RPM

```
gcc -D__KERNEL__ -Iusr/src/linux-2.4.20-27.9/include -Wall -Wstrict-prototypes -Wno-trigraphs -O2
-fno-strict-aliasing -fno-common -fomit-frame-pointer -pipe -mpreferred-stack-boundary=2
-march=i686 -nostdinc -iwithprefix include -DKBUILD_BASENAME=io_apic -c -o io_apic.o io_apic.c
io_apic.c:45: `dest_LowestPrio' undeclared here (not in a function)
io_apic.c: In function `__mask_IO_APIC_irq':
io_apic.c:140: warning: implicit declaration of function `io_apic_read'
io_apic.c:140: warning: implicit declaration of function `io_apic_modify'
io_apic.c:140: warning: implicit declaration of function `io_apic_sync'
io_apic.c: In function `clear_IO_APIC_pin':
io_apic.c:169: storage size of `entry' isn't known
io_apic.c:178: warning: implicit declaration of function `io_apic_write'
io_apic.c:169: warning: unused variable `entry'
io_apic.c: In function `clear_IO_APIC':
io_apic.c:187: `nr_ioapics' undeclared (first use in this function)
io_apic.c:187: (Each undeclared identifier is reported only once
io_apic.c:187: for each function it appears in.)
io_apic.c: In function `find_irq_entry':
io_apic.c:253: `mp_irq_entries' undeclared (first use in this function)
io_apic.c:254: `mp_irqs' undeclared (first use in this function)
io_apic.c:255: `mp_ioapics' undeclared (first use in this function)
io_apic.c:256: `MP_APIC_ALL' undeclared (first use in this function)
io_apic.c: In function `find_isa_irq_pin':
io_apic.c:270: `mp_irq_entries' undeclared (first use in this function)
io_apic.c:271: `mp_irqs' undeclared (first use in this function)
io_apic.c:273: `mp_bus_id_to_type' undeclared (first use in this function)
io_apic.c:273: `MP_BUS_ISA' undeclared (first use in this function)
io_apic.c:274: `MP_BUS_EISA' undeclared (first use in this function)
io_apic.c:275: `MP_BUS_MCA' undeclared (first use in this function)
io_apic.c: In function `IO_APIC_get_PCI_irq_vector':
io_apic.c:294: warning: implicit declaration of function `Dprintk'
io_apic.c:296: `mp_bus_id_to_pci_bus' undeclared (first use in this function)
io_apic.c:300: `mp_irq_entries' undeclared (first use in this function)
io_apic.c:301: `mp_irqs' undeclared (first use in this function)
io_apic.c:303: `nr_ioapics' undeclared (first use in this function)
io_apic.c:304: `mp_ioapics' undeclared (first use in this function)
io_apic.c:305: `MP_APIC_ALL' undeclared (first use in this function)
io_apic.c:308: `mp_bus_id_to_type' undeclared (first use in this function)
io_apic.c:308: `MP_BUS_PCI' undeclared (first use in this function)
io_apic.c: In function `MPBIOS_polarity':
io_apic.c:371: `mp_irqs' undeclared (first use in this function)
io_apic.c:381: `mp_bus_id_to_type' undeclared (first use in this function)
io_apic.c:383: `MP_BUS_ISA' undeclared (first use in this function)
io_apic.c:388: `MP_BUS_EISA' undeclared (first use in this function)
io_apic.c:393: `MP_BUS_PCI' undeclared (first use in this function)
io_apic.c:398: `MP_BUS_MCA' undeclared (first use in this function)
io_apic.c: In function `MPBIOS_trigger':
io_apic.c:440: `mp_irqs' undeclared (first use in this function)
io_apic.c:450: `mp_bus_id_to_type' undeclared (first use in this function)
io_apic.c:452: `MP_BUS_ISA' undeclared (first use in this function)
io_apic.c:457: `MP_BUS_EISA' undeclared (first use in this function)
io_apic.c:462: `MP_BUS_PCI' undeclared (first use in this function)
```

RedHat: How to duplicate a build of the kernel in the RPM

```
io_apic.c:467: `MP_BUS_MCA' undeclared (first use in this function)
io_apic.c: In function `pin_2_irq':
io_apic.c:520: `mp_irqs' undeclared (first use in this function)
io_apic.c:528: `mp_bus_id_to_type' undeclared (first use in this function)
io_apic.c:530: `MP_BUS_ISA' undeclared (first use in this function)
io_apic.c:531: `MP_BUS_EISA' undeclared (first use in this function)
io_apic.c:532: `MP_BUS_MCA' undeclared (first use in this function)
io_apic.c:537: `MP_BUS_PCI' undeclared (first use in this function)
io_apic.c: In function `IO_APIC_irq_trigger':
io_apic.c:577: `nr_ioapics' undeclared (first use in this function)
io_apic.c:579: `mp_INT' undeclared (first use in this function)
io_apic.c: In function `setup_IO_APIC_irqs':
io_apic.c:620: storage size of `entry' isn't known
io_apic.c:626: `nr_ioapics' undeclared (first use in this function)
io_apic.c:634: `dest_LowestPrio' undeclared (first use in this function)
io_apic.c:639: `mp_INT' undeclared (first use in this function)
io_apic.c:642: `mp_ioapics' undeclared (first use in this function)
io_apic.c:620: warning: unused variable `entry'
io_apic.c: In function `setup_ExtINT_IRQ0_pin':
io_apic.c:702: storage size of `entry' isn't known
io_apic.c:710: warning: implicit declaration of function `apic_write_around'
io_apic.c:719: `dest_LowestPrio' undeclared (first use in this function)
io_apic.c:702: warning: unused variable `entry'
io_apic.c: In function `print_IO_APIC':
io_apic.c:751: storage size of `reg_00' isn't known
io_apic.c:752: storage size of `reg_01' isn't known
io_apic.c:753: storage size of `reg_02' isn't known
io_apic.c:756: `mp_irq_entries' undeclared (first use in this function)
io_apic.c:757: `nr_ioapics' undeclared (first use in this function)
io_apic.c:759: `mp_ioapics' undeclared (first use in this function)
io_apic.c:822: storage size of `entry' isn't known
io_apic.c:822: warning: unused variable `entry'
io_apic.c:751: warning: unused variable `reg_00'
io_apic.c:752: warning: unused variable `reg_01'
io_apic.c:753: warning: unused variable `reg_02'
io_apic.c: In function `print_APIC_bitfield':
io_apic.c:874: warning: implicit declaration of function `apic_read'
io_apic.c: In function `print_local_APIC':
io_apic.c:896: warning: implicit declaration of function `get_maxlvt'
io_apic.c:929: warning: implicit declaration of function `apic_write'
io_apic.c: In function `enable_IO_APIC':
io_apic.c:1002: storage size of `reg_01' isn't known
io_apic.c:1017: `nr_ioapics' undeclared (first use in this function)
io_apic.c:1002: warning: unused variable `reg_01'
io_apic.c: In function `disable_IO_APIC':
io_apic.c:1040: warning: implicit declaration of function `disconnect_bsp_APIC'
io_apic.c: In function `setup_ioapic_ids_from_mpc':
io_apic.c:1052: storage size of `reg_00' isn't known
io_apic.c:1053: `phys_cpu_present_map' undeclared (first use in this function)
io_apic.c:1065: `nr_ioapics' undeclared (first use in this function)
io_apic.c:1072: `mp_ioapics' undeclared (first use in this function)
```

RedHat: How to duplicate a build of the kernel in the RPM

```
io_apic.c:1112: `mp_irq_entries' undeclared (first use in this function)
io_apic.c:1113: `mp_irqs' undeclared (first use in this function)
io_apic.c:1052: warning: unused variable `reg_00'
io_apic.c: In function `ack_edge_ioapic_irq':
io_apic.c:1226: warning: implicit declaration of function `ack_APIC_irq'
io_apic.c: In function `unlock_ExtINT_logic':
io_apic.c:1467: storage size of `entry0' isn't known
io_apic.c:1467: storage size of `entry1' isn't known
io_apic.c:1471: `mp_INT' undeclared (first use in this function)
io_apic.c:1486: `dest_ExtINT' undeclared (first use in this function)
io_apic.c:1467: warning: unused variable `entry0'
io_apic.c:1467: warning: unused variable `entry1'
io_apic.c: In function `check_timer':
io_apic.c:1550: `mp_INT' undeclared (first use in this function)
io_apic.c:1551: `mp_ExtINT' undeclared (first use in this function)
io_apic.c:1561: `nmi_watchdog' undeclared (first use in this function)
io_apic.c:1561: `NMI_IO_APIC' undeclared (first use in this function)
io_apic.c:1565: warning: implicit declaration of function `check_nmi_watchdog'
io_apic.c: In function `setup_IO_APIC':
io_apic.c:1663: warning: implicit declaration of function `sync_Arb_IDs'
make[1]: *** [io_apic.o] Error 1
make[1]: Leaving directory `/usr/src/linux-2.4.20-27.9/arch/i386/kernel'
make: *** [_dir_arch/i386/kernel] Error 2
```

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```
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```