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  27 -->

  29 <!DOCTYPE platform PUBLIC "-//Sun Microsystems Inc//Zones Platform//EN"
  30   "file:///usr/share/lib/xml/dtd/zone_platform.dtd.1">

  32 <platform name="ipkg" allow-exclusive-ip="true">

  34   <!-- Global filesystems to mount when booting the zone -->
  35   <global_mount special="/dev" directory="/dev" type="dev"
  36   opt="attrdir=%R/root/dev"/>

  38   <!-- Local filesystems to mount when booting the zone -->
  39   <mount special="/proc" directory="/proc" type="proc" />
  40   <mount special="ctfs" directory="/system/contract" type="ctfs" />
  41   <mount special="mnttab" directory="/etc/mnttab" type="mntfs" />
  42   <mount special="objfs" directory="/system/object" type="objfs" />
  43   <mount special="swap" directory="/etc/svc/volatile" type="tmpfs" />

  45   <!-- Devices to create under /dev -->
  46   <device match="arp" />
  47   <device match="bpf" />
  48   <device match="conslog" />
  49   <device match="cpu/self/cpuid" />
  50   <device match="crypto" />
  51   <device match="cryptoadm" />
  52   <device match="dsk" />
  53   <device match="dtrace/*" />
  54   <device match="dtrace/provider/*" />
  55   <device match="fd" />
  56   **<device match="full" />**
  57   <device match="ipnet" />
  58   <device match="kstat" />
  59   <device match="lo0" />

  60   <device match="lofictl" />
  61   <device match="lofi" />
  62   <device match="log" />
  63   <device match="logindmux" />
  64   <device match="nsmb" />
  65   <device match="net/*" />
  66   <device match="null" />
  67   <device match="openprom" arch="sparc" />
  68   <device match="poll" />
  69   <device match="pool" />
  70   <device match="ptmx" />
  71   <device match="pts/*" />
  72   <device match="random" />
  73   <device match="rdsk" />
  74   <device match="rlofi" />
  75   <device match="rmt" />
  76   <device match="sad/user" />
  77   <device match="smbsrv" />
  78   <device match="svvslo0" />
  79   <device match="svvslo1" />
  80   <device match="svvslo2" />
  81   <device match="svvslo3" />
  82   <device match="swap" />
  83   <device match="sysevent" />
  84   <device match="tcp" />
  85   <device match="tcp6" />
  86   <device match="term" />
  87   <device match="ticlts" />
  88   <device match="ticots" />
  89   <device match="ticotsord" />
  90   <device match="tty" />
  91   <device match="udp" />
  92   <device match="udp6" />
  93   <device match="urandom" />
  94   <device match="zero" />
  95   <device match="zfs" />

  97   <!-- Devices to create in exclusive IP zone only -->
  98   <device match="dld" ip-type="exclusive" />
  99   <device match="icmp" ip-type="exclusive" />
 100   <device match="icmp6" ip-type="exclusive" />
 101   <device match="ip" ip-type="exclusive" />
 102   <device match="ip6" ip-type="exclusive" />
 103   <device match="ipauth" ip-type="exclusive" />
 104   <device match="ipf" ip-type="exclusive" />
 105   <device match="ipl" ip-type="exclusive" />
 106   <device match="iplookup" ip-type="exclusive" />
 107   <device match="ipmpstub" ip-type="exclusive" />
 108   <device match="ipnat" ip-type="exclusive" />
 109   <device match="ipscan" ip-type="exclusive" />
 110   <device match="ipsecah" ip-type="exclusive" />
 111   <device match="ipsecesp" ip-type="exclusive" />
 112   <device match="ipstate" ip-type="exclusive" />
 113   <device match="ipsync" ip-type="exclusive" />
 114   <device match="keysock" ip-type="exclusive" />
 115   <device match="rawip" ip-type="exclusive" />
 116   <device match="rawip6" ip-type="exclusive" />
 117   <device match="rts" ip-type="exclusive" />
 118   <device match="sad/admin" ip-type="exclusive" />
 119   <device match="sctp" ip-type="exclusive" />
 120   <device match="sctp6" ip-type="exclusive" />
 121   <device match="spdsock" ip-type="exclusive" />
 122   <device match="sppp" ip-type="exclusive" />
 123   <device match="sppptun" ip-type="exclusive" />
 124   <device match="vni" ip-type="exclusive" />

```
126            <!-- Renamed devices to create under /dev -->
127            <device match="zcons/%z/zoneconsole" name="zconsole" />

129            <!-- Symlinks to create under /dev -->
130            <symlink source="console" target="zconsole" />
131            <symlink source="dtremote" target="/dev/null" />
132            <symlink source="msglog" target="zconsole" />
133            <symlink source="stderr" target="./fd/2" />
134            <symlink source="stdin" target="./fd/0" />
135            <symlink source="stdout" target="./fd/1" />
136            <symlink source="syscon" target="zconsole" />
137            <symlink source="sysmsg" target="zconsole" />
138            <symlink source="systty" target="zconsole" />

140 </platform>
```

```
*********************************************************
    5220 Sat Mar 11 21:24:08 2017
new/usr/src/lib/brand/labeled/zone/platform.xml
7882 Add /dev/full , the always-full memory device
Reviewed by: Adam Stevko <adam.stevko@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
*********************************************************
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  29 <!DOCTYPE platform PUBLIC "-//Sun Microsystems Inc//Zones Platform//EN"
  30     "file:///usr/share/lib/xml/dtd/zone_platform.dtd.1">

  32 <platform name="labeled" allow-exclusive-ip="true">

  34         <!-- Global filesystems to mount when booting the zone -->
  35         <global_mount special="/dev" directory="/dev" type="dev"
  36             opt="attrdir=%R/root/dev"/>

  38         <!--
  39             etc/gconf has GNOME settings; this mount facilitates sharing
  40             the global zone settings with the labeled zone.
  41         -->
  42         <global_mount special="/etc/gconf" directory="/etc/gconf-global"
  43             type="lofs"/>

  45         <!--
  46             Export rendezvous files for global zone services including
  47             Xorg, nscd, and labeld.
  48         -->
  49         <global_mount special="/var/tsol/doors"
  50             directory="/var/tsol/doors" type="lofs"/>

  52         <!-- Local filesystems to mount when booting the zone -->
  53         <mount special="/proc" directory="/proc" type="proc" />
  54         <mount special="ctfs" directory="/system/contract" type="ctfs" />
  55         <mount special="mnttab" directory="/etc/mnttab" type="mntfs" />
  56         <mount special="objfs" directory="/system/object" type="objfs" />
  57         <mount special="swap" directory="/etc/svc/volatile" type="tmpfs" />

  59         <!-- Devices to create under /dev -->
```

```
  60         <device match="arp" />
  61         <device match="bpf" />
  62         <device match="conslog" />
  63         <device match="cpu/self/cpuid" />
  64         <device match="crypto" />
  65         <device match="cryptoadm" />
  66         <device match="dsk" />
  67         <device match="dtrace/*" />
  68         <device match="dtrace/provider/*" />
  69         <device match="fd" />
  70         <device match="full" />
  71         <device match="ipnet" />
  72         <device match="kstat" />
  73         <device match="lo0" />
  74         <device match="log" />
  75         <device match="logindmux" />
  76         <device match="nsmb" />
  77         <device match="net/*" />
  78         <device match="null" />
  79         <device match="openprom" arch="sparc" />
  80         <device match="poll" />
  81         <device match="pool" />
  82         <device match="ptmx" />
  83         <device match="pts/*" />
  84         <device match="random" />
  85         <device match="rdsk" />
  86         <device match="rmt" />
  87         <device match="sad/user" />
  88         <device match="svvslo0" />
  89         <device match="svvslo1" />
  90         <device match="svvslo2" />
  91         <device match="svvslo3" />
  92         <device match="swap" />
  93         <device match="sysevent" />
  94         <device match="tcp" />
  95         <device match="tcp6" />
  96         <device match="term" />
  97         <device match="ticlts" />
  98         <device match="ticots" />
  99         <device match="ticotsord" />
 100         <device match="tty" />
 101         <device match="udp" />
 102         <device match="udp6" />
 103         <device match="urandom" />
 104         <device match="zero" />
 105         <device match="zfs" />

 107         <!-- Devices to create in exclusive IP zone only -->
 108         <device match="dld" ip-type="exclusive" />
 109         <device match="icmp" ip-type="exclusive" />
 110         <device match="icmp6" ip-type="exclusive" />
 111         <device match="ip" ip-type="exclusive" />
 112         <device match="ip6" ip-type="exclusive" />
 113         <device match="ipauth" ip-type="exclusive" />
 114         <device match="ipf" ip-type="exclusive" />
 115         <device match="ipl" ip-type="exclusive" />
 116         <device match="iplookup" ip-type="exclusive" />
 117         <device match="ipmpstub" ip-type="exclusive" />
 118         <device match="ipnat" ip-type="exclusive" />
 119         <device match="ipscan" ip-type="exclusive" />
 120         <device match="ipsecah" ip-type="exclusive" />
 121         <device match="ipsecesp" ip-type="exclusive" />
 122         <device match="ipstate" ip-type="exclusive" />
 123         <device match="ipsync" ip-type="exclusive" />
 124         <device match="keysock" ip-type="exclusive" />
 125         <device match="rawip" ip-type="exclusive" />
```

```
126            <device match="rawip6" ip-type="exclusive" />
127            <device match="rts" ip-type="exclusive" />
128            <device match="sad/admin" ip-type="exclusive" />
129            <device match="sctp" ip-type="exclusive" />
130            <device match="sctp6" ip-type="exclusive" />
131            <device match="spdsock" ip-type="exclusive" />
132            <device match="sppp" ip-type="exclusive" />
133            <device match="sppptun" ip-type="exclusive" />
134            <device match="vni" ip-type="exclusive" />

136            <!-- Renamed devices to create under /dev -->
137            <device match="zcons/%z/zoneconsole" name="zconsole" />

139            <!-- Symlinks to create under /dev -->
140            <symlink source="console" target="zconsole" />
141            <symlink source="dtremote" target="/dev/null" />
142            <symlink source="msglog" target="zconsole" />
143            <symlink source="stderr" target="./fd/2" />
144            <symlink source="stdin" target="./fd/0" />
145            <symlink source="stdout" target="./fd/1" />
146            <symlink source="syscon" target="zconsole" />
147            <symlink source="sysmsg" target="zconsole" />
148            <symlink source="systty" target="zconsole" />

150 </platform>
```

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  25 DO NOT EDIT THIS FILE.
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  28 <!DOCTYPE platform PUBLIC "-//Sun Microsystems Inc//Zones Platform//EN"
  29   "file:///usr/share/lib/xml/dtd/zone_platform.dtd.1">

  31 <platform name="native" allow-exclusive-ip="true">

  33   <!-- Global filesystems to mount when booting the zone -->
  34   <global_mount special="/dev" directory="/dev" type="dev"
  35   opt="attrdir=%R/dev"/>

  37   <global_mount special="/usr" directory="/.SUNWnative/usr"
  38   opt="ro,nodevices" type="lofs" />
  39   <global_mount special="/lib" directory="/.SUNWnative/lib"
  40   opt="ro,nodevices" type="lofs" />

  42   <!-- Local filesystems to mount when booting the zone -->
  43   <mount special="/proc" directory="/proc" type="proc" />
  44   <mount special="ctfs" directory="/system/contract" type="ctfs" />
  45   <mount special="mnttab" directory="/etc/mnttab" type="mntfs" />
  46   <mount special="objfs" directory="/system/object" type="objfs" />
  47   <mount special="swap" directory="/etc/svc/volatile" type="tmpfs" />

  49   <!-- Devices to create under /dev -->
  50   <device match="arp" />
  51   <device match="bpf" />
  52   <device match="conslog" />
  53   <device match="cpu/self/cpuid" />
  54   <device match="crypto" />
  55   <device match="cryptoadm" />
  56   <device match="dsk" />
  57   <device match="dtrace/*" />
  58   <device match="dtrace/provider/*" />
  59   <device match="fd" />

  60   <device match="full" />
  61   <device match="ipnet" />
  62   <device match="kstat" />
  63   <device match="lo0" />
  64   <device match="lofictl" />
  65   <device match="lofi" />
  66   <device match="log" />
  67   <device match="logindmux" />
  68   <device match="nsmb" />
  69   <device match="net/*" />
  70   <device match="null" />
  71   <device match="openprom" arch="sparc" />
  72   <device match="poll" />
  73   <device match="pool" />
  74   <device match="ptmx" />
  75   <device match="pts/*" />
  76   <device match="random" />
  77   <device match="rdsk" />
  78   <device match="rlofi" />
  79   <device match="rmt" />
  80   <device match="sad/user" />
  81   <device match="svvslo0" />
  82   <device match="svvslo1" />
  83   <device match="svvslo2" />
  84   <device match="svvslo3" />
  85   <device match="swap" />
  86   <device match="sysevent" />
  87   <device match="tcp" />
  88   <device match="tcp6" />
  89   <device match="term" />
  90   <device match="ticlts" />
  91   <device match="ticots" />
  92   <device match="ticotsord" />
  93   <device match="tty" />
  94   <device match="udp" />
  95   <device match="udp6" />
  96   <device match="urandom" />
  97   <device match="zero" />
  98   <device match="zfs" />

 100   <!-- Devices to create in exclusive IP zone only -->
 101   <device match="dld" ip-type="exclusive" />
 102   <device match="icmp" ip-type="exclusive" />
 103   <device match="icmp6" ip-type="exclusive" />
 104   <device match="ip" ip-type="exclusive" />
 105   <device match="ip6" ip-type="exclusive" />
 106   <device match="ipauth" ip-type="exclusive" />
 107   <device match="ipf" ip-type="exclusive" />
 108   <device match="ipl" ip-type="exclusive" />
 109   <device match="iplookup" ip-type="exclusive" />
 110   <device match="ipmpstub" ip-type="exclusive" />
 111   <device match="ipnat" ip-type="exclusive" />
 112   <device match="ipscan" ip-type="exclusive" />
 113   <device match="ipsecah" ip-type="exclusive" />
 114   <device match="ipsecesp" ip-type="exclusive" />
 115   <device match="ipstate" ip-type="exclusive" />
 116   <device match="ipsync" ip-type="exclusive" />
 117   <device match="iptunq" ip-type="exclusive" />
 118   <device match="keysock" ip-type="exclusive" />
 119   <device match="rawip" ip-type="exclusive" />
 120   <device match="rawip6" ip-type="exclusive" />
 121   <device match="rts" ip-type="exclusive" />
 122   <device match="sad/admin" ip-type="exclusive" />
 123   <device match="sctp" ip-type="exclusive" />
 124   <device match="sctp6" ip-type="exclusive" />
 125   <device match="spdsock" ip-type="exclusive" />

```
126          <device match="sppp" ip-type="exclusive" />
127          <device match="sppptun" ip-type="exclusive" />

129          <!-- Renamed devices to create under /dev -->
130          <device match="zcons/%z/zoneconsole" name="zconsole" />

132          <!-- Symlinks to create under /dev -->
133          <symlink source="console" target="zconsole" />
134          <symlink source="dtremote" target="/dev/null" />
135          <symlink source="msglog" target="zconsole" />
136          <symlink source="stderr" target="./fd/2" />
137          <symlink source="stdin" target="./fd/0" />
138          <symlink source="stdout" target="./fd/1" />
139          <symlink source="syscon" target="zconsole" />
140          <symlink source="sysmsg" target="zconsole" />
141          <symlink source="systty" target="zconsole" />
142 </platform>
```

```
*********************************************************
    5665 Sat Mar 11 21:24:09 2017
new/usr/src/lib/brand/solaris10/zone/platform.xml
7882 Add /dev/full , the always-full memory device
Reviewed by: Adam Stevko <adam.stevko@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
*********************************************************
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  28 <!DOCTYPE platform PUBLIC "-//Sun Microsystems Inc//Zones Platform//EN"
  29     "file:///usr/share/lib/xml/dtd/zone_platform.dtd.1">

  31 <platform name="solaris10" allow-exclusive-ip="true">

  33       <!-- Global filesystems to mount when booting the zone -->
  34       <global_mount special="/dev" directory="/dev" type="dev"
  35           opt="attrdir=%R/dev"/>

  37       <!--
  38           Local filesystems to mount when booting the zone.  The
  39           /.SUNWnative/platform entry is needed so that we can symlink a
  40           platform-specific libc_psr for platforms which were not delivered
  41           with S10.  The /.SUNWnative/sbin entry is needed so that we can
  42           replace ifconfig with its native counterpart (this is required for
  43           exclusive-stack S10 zones to work).
  44       -->
  45       <global_mount special="/usr" directory="/.SUNWnative/usr"
  46           opt="ro,nodevices" type="lofs" />
  47       <global_mount special="/lib" directory="/.SUNWnative/lib"
  48           opt="ro,nodevices" type="lofs" />
  49       <global_mount special="/platform" directory="/.SUNWnative/platform"
  50           opt="ro,nodevices" type="lofs" />
  51       <global_mount special="/sbin" directory="/.SUNWnative/sbin"
  52           opt="ro,nodevices" type="lofs" />

  54       <!-- Local filesystems to mount when booting the zone -->
  55       <mount special="/proc" directory="/proc" type="proc" />
  56       <mount special="ctfs" directory="/system/contract" type="ctfs" />
  57       <mount special="mnttab" directory="/etc/mnttab" type="mntfs" />
  58       <mount special="objfs" directory="/system/object" type="objfs" />
  59       <mount special="swap" directory="/etc/svc/volatile" type="tmpfs" />
```

```
  61       <!-- Devices to create under /dev -->
  62       <device match="arp" />
  63       <device match="bpf" />
  64       <device match="conslog" />
  65       <device match="cpu/self/cpuid" />
  66       <device match="crypto" />
  67       <device match="cryptoadm" />
  68       <device match="dsk" />
  69       <device match="dtrace/*" />
  70       <device match="dtrace/provider/*" />
  71       <device match="fd" />
  72       <device match="full" />
  73       <device match="ipnet" />
  74       <device match="kstat" />
  75       <device match="lo0" />
  76       <device match="lofictl" />
  77       <device match="lofi" />
  78       <device match="log" />
  79       <device match="logindmux" />
  80       <device match="nsmb" />
  81       <device match="net/*" />
  82       <device match="null" />
  83       <device match="openprom" arch="sparc" />
  84       <device match="poll" />
  85       <device match="pool" />
  86       <device match="ptmx" />
  87       <device match="pts/*" />
  88       <device match="random" />
  89       <device match="rdsk" />
  90       <device match="rlofi" />
  91       <device match="rmt" />
  92       <device match="sad/user" />
  93       <device match="svvslo0" />
  94       <device match="svvslo1" />
  95       <device match="svvslo2" />
  96       <device match="svvslo3" />
  97       <device match="swap" />
  98       <device match="sysevent" />
  99       <device match="tcp" />
 100       <device match="tcp6" />
 101       <device match="term" />
 102       <device match="ticlts" />
 103       <device match="ticots" />
 104       <device match="ticotsord" />
 105       <device match="tty" />
 106       <device match="udp" />
 107       <device match="udp6" />
 108       <device match="urandom" />
 109       <device match="zero" />
 110       <device match="zfs" />

 112       <!-- Devices to create in exclusive IP zone only -->
 113       <device match="dld" ip-type="exclusive" />
 114       <device match="icmp" ip-type="exclusive" />
 115       <device match="icmp6" ip-type="exclusive" />
 116       <device match="ip" ip-type="exclusive" />
 117       <device match="ip6" ip-type="exclusive" />
 118       <device match="ipauth" ip-type="exclusive" />
 119       <device match="ipf" ip-type="exclusive" />
 120       <device match="ipl" ip-type="exclusive" />
 121       <device match="iplookup" ip-type="exclusive" />
 122       <device match="ipmpstub" ip-type="exclusive" />
 123       <device match="ipnat" ip-type="exclusive" />
 124       <device match="ipscan" ip-type="exclusive" />
 125       <device match="ipsecah" ip-type="exclusive" />
```

```
126            <device match="ipsecesp" ip-type="exclusive" />
127            <device match="ipstate" ip-type="exclusive" />
128            <device match="ipsync" ip-type="exclusive" />
129            <device match="keysock" ip-type="exclusive" />
130            <device match="rawip" ip-type="exclusive" />
131            <device match="rawip6" ip-type="exclusive" />
132            <device match="rts" ip-type="exclusive" />
133            <device match="sad/admin" ip-type="exclusive" />
134            <device match="sctp" ip-type="exclusive" />
135            <device match="sctp6" ip-type="exclusive" />
136            <device match="spdsock" ip-type="exclusive" />
137            <device match="sppp" ip-type="exclusive" />
138            <device match="sppptun" ip-type="exclusive" />
139            <device match="vni" ip-type="exclusive" />

141            <!-- Renamed devices to create under /dev -->
142            <device match="zcons/%z/zoneconsole" name="zconsole" />

144            <!-- Symlinks to create under /dev -->
145            <symlink source="console" target="zconsole" />
146            <symlink source="dtremote" target="/dev/null" />
147            <symlink source="msglog" target="zconsole" />
148            <symlink source="stderr" target="./fd/2" />
149            <symlink source="stdin" target="./fd/0" />
150            <symlink source="stdout" target="./fd/1" />
151            <symlink source="syscon" target="zconsole" />
152            <symlink source="sysmsg" target="zconsole" />
153            <symlink source="systty" target="zconsole" />
154 </platform>
```

```
*********************************************************
    4527 Sat Mar 11 21:24:09 2017
new/usr/src/man/man7d/Makefile
7882 Add /dev/full , the always-full memory device
Reviewed by: Adam Stevko <adam.stevko@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
*********************************************************
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  18 #

  20 include         $(SRC)/Makefile.master

  22 MANSECT=        7d

  24 _MANFILES=      aac.7d          \
  25                 afe.7d          \
  26                 audio.7d        \
  27                 audio1575.7d    \
  28                 audioens.7d     \
  29                 audiols.7d      \
  30                 audiop16x.7d    \
  31                 audiopci.7d     \
  32                 audiots.7d      \
  33                 av1394.7d       \
  34                 bge.7d          \
  35                 blkdev.7d       \
  36                 bnxe.7d         \
  37                 bscv.7d         \
  38                 chxge.7d        \
  39                 console.7d      \
  40                 cpuid.7d        \
  41                 dca.7d          \
  42                 dcam1394.7d     \
  43                 devinfo.7d      \
  44                 dmfe.7d         \
  45                 dtrace.7d       \
  46                 ehci.7d         \
  47                 fasttrap.7d     \
  48                 fbt.7d          \
  49                 fcip.7d         \
  50                 fcoe.7d         \
  51                 fcoei.7d        \
  52                 fcoet.7d        \
  53                 fcp.7d          \
  54                 fctl.7d         \
  55                 fd.7d           \
  56                 fp.7d           \
  57                 full.7d         \
  58                 gld.7d          \
  59                 hci1394.7d      \
```

```
  60                 hermon.7d       \
  61                 hid.7d          \
  62                 hme.7d          \
  63                 hubd.7d         \
  64                 hxge.7d         \
  65                 ib.7d           \
  66                 ibcm.7d         \
  67                 ibd.7d          \
  68                 ibdm.7d         \
  69                 ibdma.7d        \
  70                 ibtl.7d         \
  71                 ieee1394.7d     \
  72                 igb.7d          \
  73                 ii.7d           \
  74                 ipnet.7d        \
  75                 iscsi.7d        \
  76                 iser.7d         \
  77                 ixgbe.7d        \
  78                 kmdb.7d         \
  79                 kstat.7d        \
  80                 ksyms.7d        \
  81                 llc1.7d         \
  82                 lockstat.7d     \
  83                 lofi.7d         \
  84                 log.7d          \
  85                 mem.7d          \
  86                 mpt_sas.7d      \
  87                 mr_sas.7d       \
  88                 msglog.7d       \
  89                 mt.7d           \
  90                 mxfe.7d         \
  91                 myri10ge.7d     \
  92                 null.7d         \
  93                 nulldriver.7d   \
  94                 nxge.7d         \
  95                 ohci.7d         \
  96                 openprom.7d     \
  97                 pcic.7d         \
  98                 pcmcia.7d       \
  99                 physmem.7d      \
 100                 pm.7d           \
 101                 poll.7d         \
 102                 profile.7d      \
 103                 ptm.7d          \
 104                 pts.7d          \
 105                 pty.7d          \
 106                 qlc.7d          \
 107                 ramdisk.7d      \
 108                 random.7d       \
 109                 rge.7d          \
 110                 rtls.7d         \
 111                 sad.7d          \
 112                 sata.7d         \
 113                 scsa1394.7d     \
 114                 scsa2usb.7d     \
 115                 sd.7d           \
 116                 sdp.7d          \
 117                 sdt.7d          \
 118                 ses.7d          \
 119                 sfe.7d          \
 120                 sgen.7d         \
 121                 srpt.7d         \
 122                 st.7d           \
 123                 sv.7d           \
 124                 sysmsg.7d       \
 125                 systrace.7d     \
```

```
126                 ticlts.7d        \
127                 tty.7d           \
128                 ttymux.7d        \
129                 tzmon.7d         \
130                 ugen.7d          \
131                 uhci.7d          \
132                 usb_ac.7d        \
133                 usb_as.7d        \
134                 usb_ia.7d        \
135                 usb_mid.7d       \
136                 usba.7d          \
137                 usbftdi.7d       \
138                 usbprn.7d        \
139                 usbsacm.7d       \
140                 usbsksp.7d       \
141                 usbsprl.7d       \
142                 usbvc.7d         \
143                 virtualkm.7d     \
144                 vni.7d           \
145                 vr.7d            \
146                 wscons.7d        \
147                 xge.7d           \
148                 yge.7d           \
149                 zcons.7d         \
150                 zero.7d

152 sparc_MANFILES= audiocs.7d       \
153                 bbc_beep.7d      \
154                 ctsmc.7d         \
155                 cvc.7d           \
156                 cvcredir.7d      \
157                 dad.7d           \
158                 dm2s.7d          \
159                 dr.7d            \
160                 eri.7d           \
161                 fas.7d           \
162                 gpio_87317.7d    \
163                 grbeep.7d        \
164                 idn.7d           \
165                 mc-opl.7d        \
166                 n2rng.7d         \
167                 ncp.7d           \
168                 ntwdt.7d         \
169                 oplkmdrv.7d      \
170                 oplmsu.7d        \
171                 oplpanel.7d      \
172                 pcicmu.7d        \
173                 pcipsy.7d        \
174                 pcisch.7d        \
175                 schpc.7d         \
176                 sf.7d            \
177                 smbus.7d         \
178                 socal.7d         \
179                 ssd.7d           \
180                 su.7d            \
181                 todopl.7d        \
182                 tsalarm.7d       \
183                 zs.7d            \
184                 zsh.7d

186 i386_MANFILES=  ahci.7d          \
187                 amd8111s.7d      \
188                 amr.7d           \
189                 arcmsr.7d        \
190                 arn.7d           \
191                 asy.7d           \
```

```
192                 ata.7d           \
193                 atge.7d          \
194                 ath.7d           \
195                 atu.7d           \
196                 audio810.7d      \
197                 audiocmi.7d      \
198                 audiocmihd.7d    \
199                 audioemu10k.7d   \
200                 audiohd.7d       \
201                 audioixp.7d      \
202                 audiosolo.7d     \
203                 audiovia823x.7d  \
204                 audiovia97.7d    \
205                 bcm_sata.7d      \
206                 bfe.7d           \
207                 cmdk.7d          \
208                 cpqary3.7d       \
209                 dnet.7d          \
210                 ecpp.7d          \
211                 elxl.7d          \
212                 heci.7d          \
213                 i40e.7d          \
214                 i915.7d          \
215                 ipmi.7d          \
216                 iprb.7d          \
217                 ipw.7d           \
218                 iwh.7d           \
219                 iwi.7d           \
220                 iwn.7d           \
221                 mega_sas.7d      \
222                 npe.7d           \
223                 ntxn.7d          \
224                 nv_sata.7d       \
225                 nvme.7d          \
226                 pcn.7d           \
227                 radeon.7d        \
228                 ral.7d           \
229                 rtw.7d           \
230                 rum.7d           \
231                 rwd.7d           \
232                 rwn.7d           \
233                 sda.7d           \
234                 sdhost.7d        \
235                 sfxge.7d         \
236                 si3124.7d        \
237                 skd.7d           \
238                 smbios.7d        \
239                 uath.7d          \
240                 ural.7d          \
241                 urtw.7d          \
242                 wpi.7d           \
243                 zyd.7d

245 _MANLINKS=      1394.7d          \
246                 allkmem.7d       \
247                 bscbus.7d        \
248                 fdc.7d           \
249                 firewire.7d      \
250                 i2bsc.7d         \
251                 kmem.7d          \
252                 lo0.7d           \
253                 ticots.7d        \
254                 ticotsord.7d     \
255                 urandom.7d       \
256                 usb.7d
```

```
 258 sparc_MANLINKS= drmach.7d        \
 259                 ngdr.7d          \
 260                 ngdrmach.7d

 262 MANFILES =      $(_MANFILES) $($(MACH)_MANFILES)
 263 MANLINKS =      $(_MANLINKS) $($(MACH)_MANLINKS)

 265 bscbus.7d      := LINKSRC = bscv.7d
 266 i2bsc.7d       := LINKSRC = bscv.7d

 268 drmach.7d      := LINKSRC = dr.7d
 269 ngdr.7d        := LINKSRC = dr.7d
 270 ngdrmach.7d    := LINKSRC = dr.7d

 272 fdc.7d         := LINKSRC = fd.7d

 274 1394.7d        := LINKSRC = ieee1394.7d
 275 firewire.7d    := LINKSRC = ieee1394.7d

 277 lo0.7d         := LINKSRC = ipnet.7d

 279 allkmem.7d     := LINKSRC = mem.7d
 280 kmem.7d        := LINKSRC = mem.7d

 282 urandom.7d     := LINKSRC = random.7d

 284 ticots.7d      := LINKSRC = ticlts.7d
 285 ticotsord.7d   := LINKSRC = ticlts.7d

 287 usb.7d         := LINKSRC = usba.7d

 289 .KEEP_STATE:

 291 include        $(SRC)/man/Makefile.man

 293 install:       $(ROOTMANFILES) $(ROOTMANLINKS)
```

```
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  12 .
  13 .Dd "Feb 7, 2017"
  14 .Dt FULL 7D
  15 .Os
  16 .Sh NAME
  17 .Nm full
  18 .Nd always-full device
  19 .Sh SYNOPSIS
  20 .Pa /dev/full
  21 .Sh DESCRIPTION
  22 The
  23 .Nm
  24 device is used to test program behavior in out-of-space conditions.
  25 .Lp
  26 Writes always yield the error
  27 .Er ENOSPC.
  28 .Lp
  29 Reads supply an endless stream of zeros, identical to
  30 .Xr zero 7D
  31 .Lp
  32 .Xr lseek 2
  33 will always return successfully.
  34 .Lp
  35 .Xr mmap 2
  36 is not implemented.
  37 .Sh FILES
  38 .
  39 .Bl -tag -width Pa
  40 .It Pa /dev/full
  41 .El
  42 .
  43 .Sh SEE ALSO
  44 .Xr mem 7D ,
  45 .Xr null 7D ,
  46 .Xr zero 7D
```

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    17 file path=usr/share/man/man7d/bscv.7d
    18 file path=usr/share/man/man7d/console.7d
    19 file path=usr/share/man/man7d/cpuid.7d
    20 file path=usr/share/man/man7d/devinfo.7d
    21 **file path=usr/share/man/man7d/full.7d**
    22 file path=usr/share/man/man7d/gld.7d
    23 file path=usr/share/man/man7d/ipnet.7d
    24 file path=usr/share/man/man7d/kmdb.7d
    25 file path=usr/share/man/man7d/llc1.7d
    26 file path=usr/share/man/man7d/lofi.7d
    27 file path=usr/share/man/man7d/log.7d
    28 file path=usr/share/man/man7d/mem.7d
    29 file path=usr/share/man/man7d/msglog.7d
    30 file path=usr/share/man/man7d/mt.7d
    31 file path=usr/share/man/man7d/null.7d
    32 file path=usr/share/man/man7d/nulldriver.7d
    33 file path=usr/share/man/man7d/openprom.7d
    34 file path=usr/share/man/man7d/physmem.7d
    35 file path=usr/share/man/man7d/poll.7d
    36 file path=usr/share/man/man7d/pty.7d
    37 file path=usr/share/man/man7d/ramdisk.7d
    38 file path=usr/share/man/man7d/random.7d
    39 file path=usr/share/man/man7d/sad.7d
    40 file path=usr/share/man/man7d/sata.7d
    41 file path=usr/share/man/man7d/sd.7d
    42 file path=usr/share/man/man7d/sgen.7d
    43 file path=usr/share/man/man7d/st.7d
    44 file path=usr/share/man/man7d/sysmsg.7d
    45 file path=usr/share/man/man7d/ticlts.7d
    46 file path=usr/share/man/man7d/tty.7d
    47 file path=usr/share/man/man7d/ttymux.7d
    48 file path=usr/share/man/man7d/tzmon.7d
    49 file path=usr/share/man/man7d/virtualkm.7d
    50 file path=usr/share/man/man7d/vni.7d
    51 file path=usr/share/man/man7d/wscons.7d
    52 file path=usr/share/man/man7d/zero.7d
    53 link path=usr/share/man/man7d/allkmem.7d target=mem.7d
    54 link path=usr/share/man/man7d/bscbus.7d target=bscv.7d
    55 link path=usr/share/man/man7d/i2bsc.7d target=bscv.7d
    56 link path=usr/share/man/man7d/kmem.7d target=mem.7d
    57 link path=usr/share/man/man7d/lo0.7d target=ipnet.7d
    58 link path=usr/share/man/man7d/ticots.7d target=ticlts.7d
    59 link path=usr/share/man/man7d/ticotsord.7d target=ticlts.7d

    60 link path=usr/share/man/man7d/urandom.7d target=random.7d

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    28 #

    30 #
    31 # The default for payload-bearing actions in this package is to appear in the
    32 # global zone only. See the include file for greater detail, as well as
    33 # information about overriding the defaults.
    34 #
    35 <include global_zone_only_component>
    36 <include system-kernel.man1m.inc>
    37 <include system-kernel.man2.inc>
    38 <include system-kernel.man4.inc>
    39 <include system-kernel.man5.inc>
    40 <include system-kernel.man7.inc>
    41 <include system-kernel.man7d.inc>
    42 <include system-kernel.man7fs.inc>
    43 <include system-kernel.man7m.inc>
    44 <include system-kernel.man7p.inc>
    45 <include system-kernel.man9.inc>
    46 <include system-kernel.man9e.inc>
    47 <include system-kernel.man9f.inc>
    48 <include system-kernel.man9p.inc>
    49 <include system-kernel.man9s.inc>
    50 set name=pkg.fmri value=pkg:/system/kernel@$(PKGVERS)
    51 set name=pkg.description \
    52   value="core kernel software for a specific instruction-set architecture"
    53 set name=pkg.summary value="Core Solaris Kernel"
    54 set name=info.classification value=org.opensolaris.category.2008:System/Core
    55 set name=variant.arch value=$(ARCH)
    56 dir path=boot group=sys
    57 $(i386_ONLY)dir path=boot/acpi group=sys
    58 $(i386_ONLY)dir path=boot/acpi/tables group=sys
    59 dir path=boot/solaris group=sys

    60 dir path=boot/solaris/bin group=sys
    61 dir path=etc group=sys
    62 dir path=etc/crypto group=sys
    63 dir path=etc/sock2path.d group=sys
    64 dir path=kernel group=sys
    65 $(i386_ONLY)dir path=kernel/$(ARCH64) group=sys
    66 dir path=kernel/crypto group=sys
    67 dir path=kernel/crypto/$(ARCH64) group=sys
    68 dir path=kernel/dacf group=sys
    69 dir path=kernel/dacf/$(ARCH64) group=sys
    70 dir path=kernel/drv group=sys
    71 dir path=kernel/drv/$(ARCH64) group=sys
    72 dir path=kernel/exec group=sys
    73 dir path=kernel/exec/$(ARCH64) group=sys
    74 dir path=kernel/firmware group=sys
    75 dir path=kernel/fs group=sys
    76 dir path=kernel/fs/$(ARCH64) group=sys
    77 dir path=kernel/ipp group=sys
    78 dir path=kernel/ipp/$(ARCH64) group=sys
    79 dir path=kernel/kiconv group=sys
    80 dir path=kernel/kiconv/$(ARCH64) group=sys
    81 dir path=kernel/mac group=sys
    82 dir path=kernel/mac/$(ARCH64) group=sys
    83 dir path=kernel/misc group=sys
    84 dir path=kernel/misc/$(ARCH64) group=sys
    85 dir path=kernel/misc/scsi_vhci group=sys
    86 dir path=kernel/misc/scsi_vhci/$(ARCH64) group=sys
    87 dir path=kernel/sched group=sys
    88 dir path=kernel/sched/$(ARCH64) group=sys
    89 dir path=kernel/socketmod group=sys
    90 dir path=kernel/socketmod/$(ARCH64) group=sys
    91 dir path=kernel/strmod group=sys
    92 dir path=kernel/strmod/$(ARCH64) group=sys
    93 dir path=kernel/sys group=sys
    94 dir path=kernel/sys/$(ARCH64) group=sys
    95 dir path=lib
    96 dir path=lib/svc
    97 dir path=lib/svc/manifest group=sys
    98 dir path=lib/svc/manifest/system group=sys
    99 dir path=lib/svc/method
   100 dir path=usr/kernel group=sys
   101 dir path=usr/kernel/drv group=sys
   102 dir path=usr/kernel/drv/$(ARCH64) group=sys
   103 dir path=usr/share/man
   104 dir path=usr/share/man/man1m
   105 dir path=usr/share/man/man2
   106 dir path=usr/share/man/man3
   107 dir path=usr/share/man/man4
   108 dir path=usr/share/man/man5
   109 dir path=usr/share/man/man7d
   110 dir path=usr/share/man/man7fs
   111 dir path=usr/share/man/man7m
   112 dir path=usr/share/man/man7p
   113 dir path=usr/share/man/man9
   114 dir path=usr/share/man/man9e
   115 dir path=usr/share/man/man9f
   116 dir path=usr/share/man/man9p
   117 dir path=usr/share/man/man9s
   118 $(i386_ONLY)driver name=acpi_drv perms="* 0666 root sys"
   119 driver name=aggr perms="* 0666 root sys"
   120 driver name=arp perms="arp 0666 root sys"
   121 driver name=bl perms="* 0666 root sys"
   122 driver name=bridge clone_perms="bridge 0666 root sys" \
   123   policy="read_priv_set=net_rawaccess write_priv_set=net_rawaccess"
   124 $(sparc_ONLY)driver name=bscbus alias=SUNW,bscbus
   125 $(i386_ONLY)driver name=bscbus alias=SVI0101

```
126 $(sparc_ONLY)driver name=bscv alias=SUNW,bscv perms="* 0644 root sys"
127 $(i386_ONLY)driver name=bscv
128 driver name=clone
129 driver name=cn perms="* 0620 root tty"
130 driver name=conskbd perms="kbd 0666 root sys"
131 driver name=consms perms="mouse 0666 root sys"
132 driver name=cpuid perms="self 0644 root sys"
133 $(i386_ONLY)driver name=cpunex alias=cpus
134 driver name=crypto perms="crypto 0666 root sys"
135 driver name=cryptoadm perms="cryptoadm 0644 root sys"
136 $(sparc_ONLY)driver name=dad alias=ide-disk perms="* 0640 root sys"
137 driver name=devinfo perms="devinfo 0640 root sys" \
138     perms="devinfo,ro 0444 root sys"
139 driver name=dld perms="* 0666 root sys"
140 driver name=dlpistub perms="* 0666 root sys"
141 $(sparc_ONLY)driver name=i8042 alias=8042
142 $(i386_ONLY)driver name=i8042
143 driver name=icmp perms="icmp 0666 root sys" \
144     policy="read_priv_set=net_icmpaccess write_priv_set=net_icmpaccess"
145 driver name=icmp6 perms="icmp6 0666 root sys" \
146     policy="read_priv_set=net_icmpaccess write_priv_set=net_icmpaccess"
147 $(i386_ONLY)driver name=intel_nb5000 \
148     alias=pci8086,25c0 \
149     alias=pci8086,25d0 \
150     alias=pci8086,25d4 \
151     alias=pci8086,25d8 \
152     alias=pci8086,3600 \
153     alias=pci8086,4000 \
154     alias=pci8086,4001 \
155     alias=pci8086,4003 \
156     alias=pci8086,65c0
157 $(i386_ONLY)driver name=intel_nhm \
158     alias=pci8086,3423 \
159     alias=pci8086,372a
160 $(i386_ONLY)driver name=intel_nhmex alias=pci8086,3438
161 driver name=ip perms="ip 0666 root sys" \
162     policy="read_priv_set=net_rawaccess write_priv_set=net_rawaccess"
163 driver name=ip6 perms="ip6 0666 root sys" \
164     policy="read_priv_set=net_rawaccess write_priv_set=net_rawaccess"
165 driver name=ipnet perms="lo0 0666 root sys" \
166     policy="read_priv_set=net_observability write_priv_set=net_observability"
167 driver name=ippctl
168 driver name=ipsecah perms="ipsecah 0666 root sys" \
169     policy="read_priv_set=sys_ip_config write_priv_set=sys_ip_config"
170 driver name=ipsecesp perms="ipsecesp 0666 root sys" \
171     policy="read_priv_set=sys_ip_config write_priv_set=sys_ip_config"
172 driver name=iptun
173 driver name=iwscn
174 driver name=kb8042 alias=pnpPNP,303
175 driver name=keysock perms="keysock 0666 root sys" \
176     policy="read_priv_set=sys_ip_config write_priv_set=sys_ip_config"
177 driver name=kmdb
178 driver name=kssl perms="* 0666 root sys"
179 driver name=llc1 clone_perms="llc1 0666 root sys"
180 driver name=lofi perms="* 0600 root sys" perms="ctl 0644 root sys"
181 driver name=log perms="conslog 0666 root sys" perms="log 0640 root sys"
182 $(i386_ONLY)driver name=mc-amd \
183     alias=pci1022,1100 \
184     alias=pci1022,1101 \
185     alias=pci1022,1102
186 driver name=mm perms="allkmem 0600 root sys" perms="full 0666 root sys" \
187     perms="kmem 0640 root sys" perms="mem 0640 root sys" \
188     perms="null 0666 root sys" perms="zero 0666 root sys" \
185 driver name=mm perms="allkmem 0600 root sys" perms="kmem 0640 root sys" \
186     perms="mem 0640 root sys" perms="null 0666 root sys" \
187     perms="zero 0666 root sys" \
```

```
189     policy="allkmem read_priv_set=all write_priv_set=all" \
190     policy="kmem read_priv_set=none write_priv_set=all" \
191     policy="mem read_priv_set=none write_priv_set=all"
192 driver name=mouse8042 alias=pnpPNP,f03
193 $(i386_ONLY)driver name=mpt class=scsi \
194     alias=pci1000,30 \
195     alias=pci1000,50 \
196     alias=pci1000,54 \
197     alias=pci1000,56 \
198     alias=pci1000,58 \
199     alias=pci1000,62 \
200     alias=pciex1000,56 \
201     alias=pciex1000,58 \
202     alias=pciex1000,62
203 driver name=nulldriver \
204     alias=scsa,nodev \
205     alias=scsa,probe
206 driver name=openeepr perms="openprom 0640 root sys" policy=write_priv_set=all
207 driver name=options
208 $(sparc_ONLY)driver name=pci_pci class=pci \
209     alias=pci1011,1 \
210     alias=pci1011,21 \
211     alias=pci1011,24 \
212     alias=pci1011,25 \
213     alias=pci1011,26 \
214     alias=pci1014,22 \
215     alias=pciclass,060400
216 $(i386_ONLY)driver name=pci_pci class=pci \
217     alias=pci1011,1 \
218     alias=pci1011,21 \
219     alias=pci1014,22 \
220     alias=pciclass,060400 \
221     alias=pciclass,060401
222 $(sparc_ONLY)driver name=pcieb \
223     alias=pciex108e,9010 \
224     alias=pciex108e,9020 \
225     alias=pciex10b5,8114 \
226     alias=pciex10b5,8516 \
227     alias=pciex10b5,8517 \
228     alias=pciex10b5,8518 \
229     alias=pciex10b5,8532 \
230     alias=pciex10b5,8533 \
231     alias=pciex10b5,8548 \
232     alias=pciexclass,060400
233 $(i386_ONLY)driver name=pcieb \
234     alias=pciexclass,060400 \
235     alias=pciexclass,060401
236 $(sparc_ONLY)driver name=pcieb_bcm alias=pciex1166,103
237 driver name=physmem perms="* 0600 root sys"
238 driver name=poll perms="* 0666 root sys"
239 $(sparc_ONLY)driver name=power alias=ali1535d+-power
240 $(i386_ONLY)driver name=power
241 driver name=pseudo alias=zconsnex
242 driver name=ptc perms="* 0666 root sys"
243 driver name=ptsl perms="* 0666 root sys"
244 $(sparc_ONLY)driver name=ramdisk alias=SUNW,ramdisk perms="* 0600 root sys" \
245     perms="ctl 0644 root sys"
246 $(i386_ONLY)driver name=ramdisk perms="* 0600 root sys" \
247     perms="ctl 0644 root sys"
248 driver name=random perms="* 0644 root sys" policy=write_priv_set=sys_devices
249 driver name=rts perms="rts 0666 root sys"
250 driver name=sad perms="admin 0666 root sys" perms="user 0666 root sys"
251 driver name=scsi_vhci class=scsi-self-identifying perms="* 0666 root sys" \
252     policy="devctl write_priv_set=sys_devices"
253 $(sparc_ONLY)driver name=sd perms="* 0640 root sys" \
254     alias=ide-cdrom \
```

```
255      alias=scsiclass,00 \
256      alias=scsiclass,05
257 $(i386_ONLY)driver name=sd perms="* 0640 root sys" \
258      alias=scsiclass,00 \
259      alias=scsiclass,05
260 driver name=sgen perms="* 0600 root sys" \
261      alias=scsa,08.bfcp \
262      alias=scsa,08.bvhci
263 driver name=signalfd perms="* 0666 root sys"
264 driver name=simnet clone_perms="simnet 0666 root sys" perms="* 0666 root sys"
265 $(i386_ONLY)driver name=smbios perms="smbios 0444 root sys"
266 driver name=softmac
267 driver name=spdsock perms="spdsock 0666 root sys" \
268      policy="read_priv_set=sys_ip_config write_priv_set=sys_ip_config"
269 driver name=st alias=scsiclass,01 perms="* 0666 root sys"
270 driver name=sy perms="tty 0666 root tty"
271 driver name=sysevent perms="* 0600 root sys"
272 driver name=sysmsg perms="msglog 0600 root sys" perms="sysmsg 0600 root sys"
273 driver name=tcp perms="tcp 0666 root sys"
274 driver name=tcp6 perms="tcp6 0666 root sys"
275 driver name=tl perms="* 0666 root sys" clone_perms="ticlts 0666 root sys" \
276      clone_perms="ticots 0666 root sys" clone_perms="ticotsord 0666 root sys"
277 $(sparc_ONLY)driver name=ttymux alias=multiplexer
278 $(i386_ONLY)driver name=tzmon
279 $(sparc_ONLY)driver name=uata \
280      alias=pci1095,646 \
281      alias=pci1095,649 \
282      alias=pci1095,680 \
283      alias=pci10b9,5229 \
284      alias=pci10b9,5288 class=dada class=scsi
285 $(i386_ONLY)driver name=ucode perms="* 0644 root sys"
286 driver name=udp perms="udp 0666 root sys"
287 driver name=udp6 perms="udp6 0666 root sys"
288 $(i386_ONLY)driver name=vgatext \
289      alias=pciclass,000100 \
290      alias=pciclass,030000 \
291      alias=pciclass,030001 \
292      alias=pnpPNP,900
293 driver name=vnic clone_perms="vnic 0666 root sys" perms="* 0666 root sys"
294 driver name=wc perms="* 0666 root sys"
295 $(i386_ONLY)file path=boot/solaris/bin/create_diskmap group=sys mode=0555
296 file path=boot/solaris/bin/create_ramdisk group=sys mode=0555
297 file path=boot/solaris/bin/extract_boot_filelist group=sys mode=0555
298 $(i386_ONLY)file path=boot/solaris/bin/mbr group=sys mode=0555
299 $(i386_ONLY)file path=boot/solaris/bin/symdef group=sys mode=0555
300 $(i386_ONLY)file path=boot/solaris/bin/update_grub group=sys mode=0555
301 file path=boot/solaris/filelist.ramdisk group=sys
302 file path=boot/solaris/filelist.safe group=sys
303 file path=etc/crypto/kcf.conf group=sys \
304      original_name=SUNWckr:etc/crypto/kcf.conf preserve=true
305 $(i386_ONLY)file path=etc/mach group=sys original_name=SUNWos86r:etc/mach \
306      preserve=true
307 file path=etc/name_to_sysnum group=sys \
308      original_name=SUNWckr:etc/name_to_sysnum preserve=renameold
309 file path=etc/sock2path.d/system%2Fkernel group=sys
310 file path=etc/system group=sys original_name=SUNWckr:etc/system preserve=true
311 $(i386_ONLY)file path=kernel/$(ARCH64)/genunix group=sys mode=0755
312 file path=kernel/crypto/$(ARCH64)/aes group=sys mode=0755
313 file path=kernel/crypto/$(ARCH64)/arcfour group=sys mode=0755
314 file path=kernel/crypto/$(ARCH64)/blowfish group=sys mode=0755
315 file path=kernel/crypto/$(ARCH64)/des group=sys mode=0755
316 file path=kernel/crypto/$(ARCH64)/ecc group=sys mode=0755
317 file path=kernel/crypto/$(ARCH64)/edonr group=sys mode=0755
318 file path=kernel/crypto/$(ARCH64)/md4 group=sys mode=0755
319 file path=kernel/crypto/$(ARCH64)/md5 group=sys mode=0755
320 file path=kernel/crypto/$(ARCH64)/rsa group=sys mode=0755
```

```
321 file path=kernel/crypto/$(ARCH64)/sha1 group=sys mode=0755
322 file path=kernel/crypto/$(ARCH64)/sha2 group=sys mode=0755
323 file path=kernel/crypto/$(ARCH64)/skein group=sys mode=0755
324 file path=kernel/crypto/$(ARCH64)/swrand group=sys mode=0755
325 $(i386_ONLY)file path=kernel/crypto/aes group=sys mode=0755
326 $(i386_ONLY)file path=kernel/crypto/arcfour group=sys mode=0755
327 $(i386_ONLY)file path=kernel/crypto/blowfish group=sys mode=0755
328 $(i386_ONLY)file path=kernel/crypto/des group=sys mode=0755
329 $(i386_ONLY)file path=kernel/crypto/ecc group=sys mode=0755
330 $(i386_ONLY)file path=kernel/crypto/edonr group=sys mode=0755
331 $(i386_ONLY)file path=kernel/crypto/md4 group=sys mode=0755
332 $(i386_ONLY)file path=kernel/crypto/md5 group=sys mode=0755
333 $(i386_ONLY)file path=kernel/crypto/rsa group=sys mode=0755
334 $(i386_ONLY)file path=kernel/crypto/sha1 group=sys mode=0755
335 $(i386_ONLY)file path=kernel/crypto/sha2 group=sys mode=0755
336 $(i386_ONLY)file path=kernel/crypto/skein group=sys mode=0755
337 $(i386_ONLY)file path=kernel/crypto/swrand group=sys mode=0755
338 $(sparc_ONLY)file path=kernel/dacf/$(ARCH64)/consconfig_dacf group=sys \
339      mode=0755
340 file path=kernel/dacf/$(ARCH64)/net_dacf group=sys mode=0755
341 $(i386_ONLY)file path=kernel/dacf/net_dacf group=sys mode=0755
342 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/acpi_drv group=sys
343 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/acpi_toshiba group=sys
344 file path=kernel/drv/$(ARCH64)/aggr group=sys
345 file path=kernel/drv/$(ARCH64)/arp group=sys
346 file path=kernel/drv/$(ARCH64)/bl group=sys
347 file path=kernel/drv/$(ARCH64)/bridge group=sys
348 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/bscbus group=sys
349 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/bscv group=sys
350 file path=kernel/drv/$(ARCH64)/clone group=sys
351 file path=kernel/drv/$(ARCH64)/cn group=sys
352 file path=kernel/drv/$(ARCH64)/conskbd group=sys
353 file path=kernel/drv/$(ARCH64)/consms group=sys
354 file path=kernel/drv/$(ARCH64)/cpuid group=sys
355 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/cpunex group=sys
356 file path=kernel/drv/$(ARCH64)/crypto group=sys
357 file path=kernel/drv/$(ARCH64)/cryptoadm group=sys
358 $(sparc_ONLY)file path=kernel/drv/$(ARCH64)/dad group=sys
359 file path=kernel/drv/$(ARCH64)/devinfo group=sys
360 file path=kernel/drv/$(ARCH64)/dld group=sys
361 file path=kernel/drv/$(ARCH64)/dlpistub group=sys
362 file path=kernel/drv/$(ARCH64)/i8042 group=sys
363 file path=kernel/drv/$(ARCH64)/icmp group=sys
364 file path=kernel/drv/$(ARCH64)/icmp6 group=sys
365 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/intel_nb5000 group=sys
366 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/intel_nhm group=sys
367 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/intel_nhmex group=sys
368 file path=kernel/drv/$(ARCH64)/ip group=sys
369 file path=kernel/drv/$(ARCH64)/ip6 group=sys
370 file path=kernel/drv/$(ARCH64)/ipnet group=sys
371 file path=kernel/drv/$(ARCH64)/ippctl group=sys
372 file path=kernel/drv/$(ARCH64)/ipsecah group=sys
373 file path=kernel/drv/$(ARCH64)/ipsecesp group=sys
374 file path=kernel/drv/$(ARCH64)/iptun group=sys
375 file path=kernel/drv/$(ARCH64)/iwscn group=sys
376 file path=kernel/drv/$(ARCH64)/kb8042 group=sys
377 file path=kernel/drv/$(ARCH64)/keysock group=sys
378 file path=kernel/drv/$(ARCH64)/kmdb group=sys
379 file path=kernel/drv/$(ARCH64)/kssl group=sys
380 file path=kernel/drv/$(ARCH64)/llc1 group=sys
381 file path=kernel/drv/$(ARCH64)/lofi group=sys
382 file path=kernel/drv/$(ARCH64)/log group=sys
383 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/mc-amd group=sys
384 file path=kernel/drv/$(ARCH64)/mm group=sys
385 file path=kernel/drv/$(ARCH64)/mouse8042 group=sys
386 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/mpt group=sys
```

```
387 file path=kernel/drv/$(ARCH64)/nulldriver group=sys
388 file path=kernel/drv/$(ARCH64)/openeepr group=sys
389 file path=kernel/drv/$(ARCH64)/options group=sys
390 file path=kernel/drv/$(ARCH64)/pci_pci group=sys
391 file path=kernel/drv/$(ARCH64)/pcieb group=sys
392 $(sparc_ONLY)file path=kernel/drv/$(ARCH64)/pcieb_bcm group=sys
393 file path=kernel/drv/$(ARCH64)/physmem group=sys
394 file path=kernel/drv/$(ARCH64)/poll group=sys
395 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/power group=sys
396 file path=kernel/drv/$(ARCH64)/pseudo group=sys
397 file path=kernel/drv/$(ARCH64)/ptc group=sys
398 file path=kernel/drv/$(ARCH64)/ptsl group=sys
399 file path=kernel/drv/$(ARCH64)/ramdisk group=sys
400 file path=kernel/drv/$(ARCH64)/random group=sys
401 file path=kernel/drv/$(ARCH64)/rts group=sys
402 file path=kernel/drv/$(ARCH64)/sad group=sys
403 file path=kernel/drv/$(ARCH64)/scsi_vhci group=sys
404 file path=kernel/drv/$(ARCH64)/sd group=sys
405 file path=kernel/drv/$(ARCH64)/sgen group=sys
406 file path=kernel/drv/$(ARCH64)/simnet group=sys
407 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/smbios group=sys
408 file path=kernel/drv/$(ARCH64)/softmac group=sys
409 file path=kernel/drv/$(ARCH64)/spdsock group=sys
410 file path=kernel/drv/$(ARCH64)/st group=sys
411 file path=kernel/drv/$(ARCH64)/sy group=sys
412 file path=kernel/drv/$(ARCH64)/sysevent group=sys
413 file path=kernel/drv/$(ARCH64)/sysmsg group=sys
414 file path=kernel/drv/$(ARCH64)/tcp group=sys
415 file path=kernel/drv/$(ARCH64)/tcp6 group=sys
416 file path=kernel/drv/$(ARCH64)/tl group=sys
417 $(sparc_ONLY)file path=kernel/drv/$(ARCH64)/ttymux group=sys
418 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/tzmon group=sys
419 $(sparc_ONLY)file path=kernel/drv/$(ARCH64)/uata group=sys
420 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/ucode group=sys
421 file path=kernel/drv/$(ARCH64)/udp group=sys
422 file path=kernel/drv/$(ARCH64)/udp6 group=sys
423 $(i386_ONLY)file path=kernel/drv/$(ARCH64)/vgatext group=sys
424 file path=kernel/drv/$(ARCH64)/vnic group=sys
425 file path=kernel/drv/$(ARCH64)/wc group=sys
426 $(i386_ONLY)file path=kernel/drv/acpi_drv group=sys
427 $(i386_ONLY)file path=kernel/drv/acpi_drv.conf group=sys
428 $(i386_ONLY)file path=kernel/drv/acpi_toshiba group=sys
429 $(i386_ONLY)file path=kernel/drv/aggr group=sys
430 file path=kernel/drv/aggr.conf group=sys
431 $(i386_ONLY)file path=kernel/drv/arp group=sys
432 file path=kernel/drv/arp.conf group=sys
433 $(i386_ONLY)file path=kernel/drv/bl group=sys
434 file path=kernel/drv/bl.conf group=sys
435 $(i386_ONLY)file path=kernel/drv/bridge group=sys
436 file path=kernel/drv/bridge.conf group=sys
437 $(i386_ONLY)file path=kernel/drv/bscbus group=sys
438 $(i386_ONLY)file path=kernel/drv/bscbus.conf group=sys
439 $(i386_ONLY)file path=kernel/drv/bscv group=sys
440 $(i386_ONLY)file path=kernel/drv/bscv.conf group=sys
441 $(i386_ONLY)file path=kernel/drv/clone group=sys
442 file path=kernel/drv/clone.conf group=sys
443 $(i386_ONLY)file path=kernel/drv/cn group=sys
444 file path=kernel/drv/cn.conf group=sys
445 $(i386_ONLY)file path=kernel/drv/conskbd group=sys
446 file path=kernel/drv/conskbd.conf group=sys
447 $(i386_ONLY)file path=kernel/drv/consms group=sys
448 file path=kernel/drv/consms.conf group=sys
449 $(i386_ONLY)file path=kernel/drv/cpuid group=sys
450 file path=kernel/drv/cpuid.conf group=sys
451 $(i386_ONLY)file path=kernel/drv/cpunex group=sys
452 $(i386_ONLY)file path=kernel/drv/crypto group=sys
```

```
453 file path=kernel/drv/crypto.conf group=sys
454 $(i386_ONLY)file path=kernel/drv/cryptoadm group=sys
455 file path=kernel/drv/cryptoadm.conf group=sys
456 $(sparc_ONLY)file path=kernel/drv/dad.conf group=sys
457 $(i386_ONLY)file path=kernel/drv/devinfo group=sys
458 file path=kernel/drv/devinfo.conf group=sys
459 $(i386_ONLY)file path=kernel/drv/dld group=sys
460 file path=kernel/drv/dld.conf group=sys
461 $(i386_ONLY)file path=kernel/drv/dlpistub group=sys
462 file path=kernel/drv/dlpistub.conf group=sys
463 $(i386_ONLY)file path=kernel/drv/i8042 group=sys
464 $(i386_ONLY)file path=kernel/drv/icmp group=sys
465 file path=kernel/drv/icmp.conf group=sys
466 $(i386_ONLY)file path=kernel/drv/icmp6 group=sys
467 file path=kernel/drv/icmp6.conf group=sys
468 $(i386_ONLY)file path=kernel/drv/intel_nb5000 group=sys
469 $(i386_ONLY)file path=kernel/drv/intel_nb5000.conf group=sys
470 $(i386_ONLY)file path=kernel/drv/intel_nhm group=sys
471 $(i386_ONLY)file path=kernel/drv/intel_nhm.conf group=sys
472 $(i386_ONLY)file path=kernel/drv/intel_nhmex group=sys
473 $(i386_ONLY)file path=kernel/drv/intel_nhmex.conf group=sys
474 $(i386_ONLY)file path=kernel/drv/ip group=sys
475 file path=kernel/drv/ip.conf group=sys
476 $(i386_ONLY)file path=kernel/drv/ip6 group=sys
477 file path=kernel/drv/ip6.conf group=sys
478 $(i386_ONLY)file path=kernel/drv/ipnet group=sys
479 file path=kernel/drv/ipnet.conf group=sys
480 $(i386_ONLY)file path=kernel/drv/ippctl group=sys
481 file path=kernel/drv/ippctl.conf group=sys
482 $(i386_ONLY)file path=kernel/drv/ipsecah group=sys
483 file path=kernel/drv/ipsecah.conf group=sys
484 $(i386_ONLY)file path=kernel/drv/ipsecesp group=sys
485 file path=kernel/drv/ipsecesp.conf group=sys
486 $(i386_ONLY)file path=kernel/drv/iptun group=sys
487 file path=kernel/drv/iptun.conf group=sys
488 $(i386_ONLY)file path=kernel/drv/iwscn group=sys
489 file path=kernel/drv/iwscn.conf group=sys
490 $(i386_ONLY)file path=kernel/drv/kb8042 group=sys
491 $(i386_ONLY)file path=kernel/drv/keysock group=sys
492 file path=kernel/drv/keysock.conf group=sys
493 $(i386_ONLY)file path=kernel/drv/kmdb group=sys
494 file path=kernel/drv/kmdb.conf group=sys
495 $(i386_ONLY)file path=kernel/drv/kssl group=sys
496 file path=kernel/drv/kssl.conf group=sys
497 $(i386_ONLY)file path=kernel/drv/llc1 group=sys
498 file path=kernel/drv/llc1.conf group=sys
499 $(i386_ONLY)file path=kernel/drv/lofi group=sys
500 file path=kernel/drv/lofi.conf group=sys
501 $(i386_ONLY)file path=kernel/drv/log group=sys
502 file path=kernel/drv/log.conf group=sys \
503    original_name=SUNWckr:kernel/drv/log.conf preserve=true
504 $(i386_ONLY)file path=kernel/drv/mc-amd group=sys
505 $(i386_ONLY)file path=kernel/drv/mc-amd.conf group=sys
506 $(i386_ONLY)file path=kernel/drv/mm group=sys
507 file path=kernel/drv/mm.conf group=sys
508 $(i386_ONLY)file path=kernel/drv/mouse8042 group=sys
509 $(i386_ONLY)file path=kernel/drv/mpt group=sys
510 $(i386_ONLY)file path=kernel/drv/mpt.conf group=sys \
511    original_name=SUNWckr:kernel/drv/mpt.conf preserve=true
512 $(i386_ONLY)file path=kernel/drv/nulldriver group=sys
513 $(i386_ONLY)file path=kernel/drv/openeepr group=sys
514 file path=kernel/drv/openeepr.conf group=sys
515 $(i386_ONLY)file path=kernel/drv/options group=sys
516 file path=kernel/drv/options.conf group=sys
517 $(i386_ONLY)file path=kernel/drv/pci_pci group=sys
518 $(i386_ONLY)file path=kernel/drv/pcieb group=sys
```

```
 519 file path=kernel/drv/pcieb.conf group=sys
 520 $(i386_ONLY)file path=kernel/drv/physmem group=sys
 521 file path=kernel/drv/physmem.conf group=sys
 522 $(i386_ONLY)file path=kernel/drv/poll group=sys
 523 file path=kernel/drv/poll.conf group=sys
 524 $(i386_ONLY)file path=kernel/drv/power group=sys
 525 $(i386_ONLY)file path=kernel/drv/power.conf group=sys
 526 $(i386_ONLY)file path=kernel/drv/pseudo group=sys
 527 file path=kernel/drv/pseudo.conf group=sys
 528 $(i386_ONLY)file path=kernel/drv/ptc group=sys
 529 file path=kernel/drv/ptc.conf group=sys
 530 $(i386_ONLY)file path=kernel/drv/ptsl group=sys
 531 file path=kernel/drv/ptsl.conf group=sys
 532 $(i386_ONLY)file path=kernel/drv/ramdisk group=sys
 533 file path=kernel/drv/ramdisk.conf group=sys
 534 $(i386_ONLY)file path=kernel/drv/random group=sys
 535 file path=kernel/drv/random.conf group=sys
 536 $(i386_ONLY)file path=kernel/drv/rts group=sys
 537 file path=kernel/drv/rts.conf group=sys
 538 $(i386_ONLY)file path=kernel/drv/sad group=sys
 539 file path=kernel/drv/sad.conf group=sys
 540 $(i386_ONLY)file path=kernel/drv/scsi_vhci group=sys
 541 file path=kernel/drv/scsi_vhci.conf group=sys \
 542     original_name=SUNWckr:kernel/drv/scsi_vhci.conf preserve=true
 543 $(i386_ONLY)file path=kernel/drv/sd group=sys
 544 $(sparc_ONLY)file path=kernel/drv/sd.conf group=sys \
 545     original_name=SUNWckr:kernel/drv/sd.conf preserve=true
 546 $(i386_ONLY)file path=kernel/drv/sd.conf group=sys \
 547     original_name=SUNWos86r:kernel/drv/sd.conf preserve=true
 548 $(i386_ONLY)file path=kernel/drv/sgen group=sys
 549 file path=kernel/drv/sgen.conf group=sys \
 550     original_name=SUNWckr:kernel/drv/sgen.conf preserve=true
 551 $(i386_ONLY)file path=kernel/drv/simnet group=sys
 552 file path=kernel/drv/simnet.conf group=sys
 553 $(i386_ONLY)file path=kernel/drv/smbios group=sys
 554 $(i386_ONLY)file path=kernel/drv/smbios.conf group=sys
 555 $(i386_ONLY)file path=kernel/drv/softmac group=sys
 556 file path=kernel/drv/softmac.conf group=sys
 557 $(i386_ONLY)file path=kernel/drv/spdsock group=sys
 558 file path=kernel/drv/spdsock.conf group=sys
 559 $(i386_ONLY)file path=kernel/drv/st group=sys
 560 file path=kernel/drv/st.conf group=sys \
 561     original_name=SUNWckr:kernel/drv/st.conf preserve=true
 562 $(i386_ONLY)file path=kernel/drv/sy group=sys
 563 file path=kernel/drv/sy.conf group=sys
 564 $(i386_ONLY)file path=kernel/drv/sysevent group=sys
 565 file path=kernel/drv/sysevent.conf group=sys
 566 $(i386_ONLY)file path=kernel/drv/sysmsg group=sys
 567 file path=kernel/drv/sysmsg.conf group=sys
 568 $(i386_ONLY)file path=kernel/drv/tcp group=sys
 569 file path=kernel/drv/tcp.conf group=sys
 570 $(i386_ONLY)file path=kernel/drv/tcp6 group=sys
 571 file path=kernel/drv/tcp6.conf group=sys
 572 $(i386_ONLY)file path=kernel/drv/tl group=sys
 573 file path=kernel/drv/tl.conf group=sys
 574 $(i386_ONLY)file path=kernel/drv/tzmon group=sys
 575 $(i386_ONLY)file path=kernel/drv/tzmon.conf group=sys
 576 $(sparc_ONLY)file path=kernel/drv/uata.conf group=sys \
 577     original_name=SUNWckr:kernel/drv/uata.conf preserve=true
 578 $(i386_ONLY)file path=kernel/drv/ucode group=sys
 579 file path=kernel/drv/ucode.conf group=sys
 580 $(i386_ONLY)file path=kernel/drv/udp group=sys
 581 file path=kernel/drv/udp.conf group=sys
 582 $(i386_ONLY)file path=kernel/drv/udp6 group=sys
 583 file path=kernel/drv/udp6.conf group=sys
 584 $(i386_ONLY)file path=kernel/drv/vgatext group=sys
```

```
 585 $(i386_ONLY)file path=kernel/drv/vnic group=sys
 586 file path=kernel/drv/vnic.conf group=sys
 587 $(i386_ONLY)file path=kernel/drv/wc group=sys
 588 file path=kernel/drv/wc.conf group=sys
 589 $(sparc_ONLY)file path=kernel/exec/$(ARCH64)/aoutexec group=sys mode=0755
 590 file path=kernel/exec/$(ARCH64)/elfexec group=sys mode=0755
 591 file path=kernel/exec/$(ARCH64)/intpexec group=sys mode=0755
 592 $(i386_ONLY)file path=kernel/exec/elfexec group=sys mode=0755
 593 $(i386_ONLY)file path=kernel/exec/intpexec group=sys mode=0755
 594 file path=kernel/fs/$(ARCH64)/autofs group=sys mode=0755
 595 file path=kernel/fs/$(ARCH64)/bootfs group=sys mode=0755
 596 file path=kernel/fs/$(ARCH64)/ctfs group=sys mode=0755
 597 file path=kernel/fs/$(ARCH64)/dcfs group=sys mode=0755
 598 file path=kernel/fs/$(ARCH64)/dev group=sys mode=0755
 599 file path=kernel/fs/$(ARCH64)/devfs group=sys mode=0755
 600 file path=kernel/fs/$(ARCH64)/fifofs group=sys mode=0755
 601 file path=kernel/fs/$(ARCH64)/hsfs group=sys mode=0755
 602 file path=kernel/fs/$(ARCH64)/lofs group=sys mode=0755
 603 file path=kernel/fs/$(ARCH64)/mntfs group=sys mode=0755
 604 file path=kernel/fs/$(ARCH64)/namefs group=sys mode=0755
 605 file path=kernel/fs/$(ARCH64)/objfs group=sys mode=0755
 606 file path=kernel/fs/$(ARCH64)/procfs group=sys mode=0755
 607 file path=kernel/fs/$(ARCH64)/sharefs group=sys mode=0755
 608 file path=kernel/fs/$(ARCH64)/sockfs group=sys mode=0755
 609 file path=kernel/fs/$(ARCH64)/specfs group=sys mode=0755
 610 file path=kernel/fs/$(ARCH64)/tmpfs group=sys mode=0755
 611 file path=kernel/fs/$(ARCH64)/ufs group=sys mode=0755
 612 $(i386_ONLY)file path=kernel/fs/autofs group=sys mode=0755
 613 $(i386_ONLY)file path=kernel/fs/bootfs group=sys mode=0755
 614 $(i386_ONLY)file path=kernel/fs/ctfs group=sys mode=0755
 615 $(i386_ONLY)file path=kernel/fs/dcfs group=sys mode=0755
 616 $(i386_ONLY)file path=kernel/fs/dev group=sys mode=0755
 617 $(i386_ONLY)file path=kernel/fs/devfs group=sys mode=0755
 618 $(i386_ONLY)file path=kernel/fs/fifofs group=sys mode=0755
 619 $(i386_ONLY)file path=kernel/fs/hsfs group=sys mode=0755
 620 $(i386_ONLY)file path=kernel/fs/lofs group=sys mode=0755
 621 $(i386_ONLY)file path=kernel/fs/mntfs group=sys mode=0755
 622 $(i386_ONLY)file path=kernel/fs/namefs group=sys mode=0755
 623 $(i386_ONLY)file path=kernel/fs/objfs group=sys mode=0755
 624 $(i386_ONLY)file path=kernel/fs/procfs group=sys mode=0755
 625 $(i386_ONLY)file path=kernel/fs/sharefs group=sys mode=0755
 626 $(i386_ONLY)file path=kernel/fs/sockfs group=sys mode=0755
 627 $(i386_ONLY)file path=kernel/fs/specfs group=sys mode=0755
 628 $(i386_ONLY)file path=kernel/fs/tmpfs group=sys mode=0755
 629 $(i386_ONLY)file path=kernel/fs/ufs group=sys mode=0755
 630 $(i386_ONLY)file path=kernel/genunix group=sys mode=0755
 631 file path=kernel/ipp/$(ARCH64)/ipgpc group=sys mode=0755
 632 $(i386_ONLY)file path=kernel/ipp/ipgpc group=sys mode=0755
 633 file path=kernel/kiconv/$(ARCH64)/kiconv_emea group=sys mode=0755
 634 file path=kernel/kiconv/$(ARCH64)/kiconv_ja group=sys mode=0755
 635 file path=kernel/kiconv/$(ARCH64)/kiconv_ko group=sys mode=0755
 636 file path=kernel/kiconv/$(ARCH64)/kiconv_sc group=sys mode=0755
 637 file path=kernel/kiconv/$(ARCH64)/kiconv_tc group=sys mode=0755
 638 $(i386_ONLY)file path=kernel/kiconv/kiconv_emea group=sys mode=0755
 639 $(i386_ONLY)file path=kernel/kiconv/kiconv_ja group=sys mode=0755
 640 $(i386_ONLY)file path=kernel/kiconv/kiconv_ko group=sys mode=0755
 641 $(i386_ONLY)file path=kernel/kiconv/kiconv_sc group=sys mode=0755
 642 $(i386_ONLY)file path=kernel/kiconv/kiconv_tc group=sys mode=0755
 643 file path=kernel/mac/$(ARCH64)/mac_6to4 group=sys mode=0755
 644 file path=kernel/mac/$(ARCH64)/mac_ether group=sys mode=0755
 645 file path=kernel/mac/$(ARCH64)/mac_ib group=sys mode=0755
 646 file path=kernel/mac/$(ARCH64)/mac_ipv4 group=sys mode=0755
 647 file path=kernel/mac/$(ARCH64)/mac_ipv6 group=sys mode=0755
 648 file path=kernel/mac/$(ARCH64)/mac_wifi group=sys mode=0755
 649 $(i386_ONLY)file path=kernel/mac/mac_6to4 group=sys mode=0755
 650 $(i386_ONLY)file path=kernel/mac/mac_ether group=sys mode=0755
```

```
651 $(i386_ONLY)file path=kernel/mac/mac_ib group=sys mode=0755
652 $(i386_ONLY)file path=kernel/mac/mac_ipv4 group=sys mode=0755
653 $(i386_ONLY)file path=kernel/mac/mac_ipv6 group=sys mode=0755
654 $(i386_ONLY)file path=kernel/mac/mac_wifi group=sys mode=0755
655 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/acpica group=sys mode=0755
656 file path=kernel/misc/$(ARCH64)/bignum group=sys mode=0755
657 file path=kernel/misc/$(ARCH64)/bootdev group=sys mode=0755
658 file path=kernel/misc/$(ARCH64)/busra group=sys mode=0755
659 file path=kernel/misc/$(ARCH64)/cardbus group=sys mode=0755
660 file path=kernel/misc/$(ARCH64)/cmlb group=sys mode=0755
661 file path=kernel/misc/$(ARCH64)/consconfig group=sys mode=0755
662 file path=kernel/misc/$(ARCH64)/ctf group=sys mode=0755
663 $(sparc_ONLY)file path=kernel/misc/$(ARCH64)/dada group=sys mode=0755
664 file path=kernel/misc/$(ARCH64)/dls group=sys mode=0755
665 file path=kernel/misc/$(ARCH64)/fssnap_if group=sys mode=0755
666 file path=kernel/misc/$(ARCH64)/gld group=sys mode=0755
667 file path=kernel/misc/$(ARCH64)/hook group=sys mode=0755
668 file path=kernel/misc/$(ARCH64)/hpcsvc group=sys mode=0755
669 file path=kernel/misc/$(ARCH64)/idmap group=sys mode=0755
670 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/iommulib group=sys mode=0755
671 file path=kernel/misc/$(ARCH64)/ipc group=sys mode=0755
672 file path=kernel/misc/$(ARCH64)/kbtrans group=sys mode=0755
673 file path=kernel/misc/$(ARCH64)/kcf group=sys mode=0755
674 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/kmdbmod group=sys mode=0755
675 file path=kernel/misc/$(ARCH64)/ksocket group=sys mode=0755
676 file path=kernel/misc/$(ARCH64)/mac group=sys mode=0755
677 file path=kernel/misc/$(ARCH64)/mii group=sys mode=0755
678 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/net80211 group=sys mode=0755
679 file path=kernel/misc/$(ARCH64)/neti group=sys mode=0755
680 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/pci_autoconfig group=sys mode=0755
681 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/pcicfg group=sys mode=0755
682 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/pcie group=sys mode=0755
683 file path=kernel/misc/$(ARCH64)/pcihp group=sys mode=0755
684 file path=kernel/misc/$(ARCH64)/pcmcia group=sys mode=0755
685 file path=kernel/misc/$(ARCH64)/rpcsec group=sys mode=0755
686 $(i386_ONLY)file path=kernel/misc/$(ARCH64)/sata group=sys mode=0755
687 file path=kernel/misc/$(ARCH64)/scsi group=sys mode=0755
688 file path=kernel/misc/$(ARCH64)/strplumb group=sys mode=0755
689 $(sparc_ONLY)file path=kernel/misc/$(ARCH64)/swapgeneric group=sys mode=0755
690 file path=kernel/misc/$(ARCH64)/tem group=sys mode=0755
691 file path=kernel/misc/$(ARCH64)/tlimod group=sys mode=0755
692 $(i386_ONLY)file path=kernel/misc/acpica group=sys mode=0755
693 $(i386_ONLY)file path=kernel/misc/bignum group=sys mode=0755
694 $(i386_ONLY)file path=kernel/misc/bootdev group=sys mode=0755
695 $(i386_ONLY)file path=kernel/misc/busra group=sys mode=0755
696 $(i386_ONLY)file path=kernel/misc/cardbus group=sys mode=0755
697 $(i386_ONLY)file path=kernel/misc/cmlb group=sys mode=0755
698 $(i386_ONLY)file path=kernel/misc/consconfig group=sys mode=0755
699 $(i386_ONLY)file path=kernel/misc/ctf group=sys mode=0755
700 $(i386_ONLY)file path=kernel/misc/dls group=sys mode=0755
701 $(i386_ONLY)file path=kernel/misc/fssnap_if group=sys mode=0755
702 $(i386_ONLY)file path=kernel/misc/gld group=sys mode=0755
703 $(i386_ONLY)file path=kernel/misc/hook group=sys mode=0755
704 $(i386_ONLY)file path=kernel/misc/hpcsvc group=sys mode=0755
705 $(i386_ONLY)file path=kernel/misc/idmap group=sys mode=0755
706 $(i386_ONLY)file path=kernel/misc/iommulib group=sys mode=0755
707 $(i386_ONLY)file path=kernel/misc/ipc group=sys mode=0755
708 $(i386_ONLY)file path=kernel/misc/kbtrans group=sys mode=0755
709 $(i386_ONLY)file path=kernel/misc/kcf group=sys mode=0755
710 $(i386_ONLY)file path=kernel/misc/kmdbmod group=sys mode=0755
711 $(i386_ONLY)file path=kernel/misc/ksocket group=sys mode=0755
712 $(i386_ONLY)file path=kernel/misc/mac group=sys mode=0755
713 $(i386_ONLY)file path=kernel/misc/mii group=sys mode=0755
714 $(i386_ONLY)file path=kernel/misc/net80211 group=sys mode=0755
715 $(i386_ONLY)file path=kernel/misc/neti group=sys mode=0755
716 $(i386_ONLY)file path=kernel/misc/pci_autoconfig group=sys mode=0755
```

```
717 $(i386_ONLY)file path=kernel/misc/pcicfg group=sys mode=0755
718 $(i386_ONLY)file path=kernel/misc/pcie group=sys mode=0755
719 $(i386_ONLY)file path=kernel/misc/pcihp group=sys mode=0755
720 $(i386_ONLY)file path=kernel/misc/pcmcia group=sys mode=0755
721 $(i386_ONLY)file path=kernel/misc/rpcsec group=sys mode=0755
722 $(i386_ONLY)file path=kernel/misc/sata group=sys mode=0755
723 $(i386_ONLY)file path=kernel/misc/scsi group=sys mode=0755
724 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_asym_emc group=sys \
725     mode=0755
726 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_asym_lsi group=sys \
727     mode=0755
728 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_asym_sun group=sys \
729     mode=0755
730 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_sym group=sys mode=0755
731 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_sym_emc group=sys \
732     mode=0755
733 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_sym_hds group=sys \
734     mode=0755
735 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_tape group=sys mode=0755
736 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_tpgs group=sys mode=0755
737 file path=kernel/misc/scsi_vhci/$(ARCH64)/scsi_vhci_f_tpgs_tape group=sys \
738     mode=0755
739 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_asym_emc group=sys \
740     mode=0755
741 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_asym_lsi group=sys \
742     mode=0755
743 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_asym_sun group=sys \
744     mode=0755
745 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_sym group=sys \
746     mode=0755
747 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_sym_emc group=sys \
748     mode=0755
749 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_sym_hds group=sys \
750     mode=0755
751 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_tape group=sys \
752     mode=0755
753 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_tpgs group=sys \
754     mode=0755
755 $(i386_ONLY)file path=kernel/misc/scsi_vhci/scsi_vhci_f_tpgs_tape group=sys \
756     mode=0755
757 $(i386_ONLY)file path=kernel/misc/strplumb group=sys mode=0755
758 $(i386_ONLY)file path=kernel/misc/tem group=sys mode=0755
759 $(i386_ONLY)file path=kernel/misc/tlimod group=sys mode=0755
760 file path=kernel/sched/$(ARCH64)/SDC group=sys mode=0755
761 file path=kernel/sched/$(ARCH64)/TS group=sys mode=0755
762 file path=kernel/sched/$(ARCH64)/TS_DPTBL group=sys mode=0755
763 $(i386_ONLY)file path=kernel/sched/SDC group=sys mode=0755
764 $(i386_ONLY)file path=kernel/sched/TS group=sys mode=0755
765 $(i386_ONLY)file path=kernel/sched/TS_DPTBL group=sys mode=0755
766 file path=kernel/socketmod/$(ARCH64)/ksslf group=sys mode=0755
767 file path=kernel/socketmod/$(ARCH64)/socksctp group=sys mode=0755
768 file path=kernel/socketmod/$(ARCH64)/trill group=sys mode=0755
769 $(i386_ONLY)file path=kernel/socketmod/ksslf group=sys mode=0755
770 $(i386_ONLY)file path=kernel/socketmod/socksctp group=sys mode=0755
771 $(i386_ONLY)file path=kernel/socketmod/trill group=sys mode=0755
772 file path=kernel/strmod/$(ARCH64)/bufmod group=sys mode=0755
773 file path=kernel/strmod/$(ARCH64)/connld group=sys mode=0755
774 file path=kernel/strmod/$(ARCH64)/dedump group=sys mode=0755
775 file path=kernel/strmod/$(ARCH64)/drcompat group=sys mode=0755
776 file path=kernel/strmod/$(ARCH64)/ldterm group=sys mode=0755
777 $(sparc_ONLY)file path=kernel/strmod/$(ARCH64)/ms group=sys mode=0755
778 file path=kernel/strmod/$(ARCH64)/pckt group=sys mode=0755
779 file path=kernel/strmod/$(ARCH64)/pfmod group=sys mode=0755
780 file path=kernel/strmod/$(ARCH64)/pipemod group=sys mode=0755
781 file path=kernel/strmod/$(ARCH64)/ptem group=sys mode=0755
782 file path=kernel/strmod/$(ARCH64)/redirmod group=sys mode=0755
```

```
 783 file path=kernel/strmod/$(ARCH64)/rpcmod group=sys mode=0755
 784 file path=kernel/strmod/$(ARCH64)/timod group=sys mode=0755
 785 file path=kernel/strmod/$(ARCH64)/tirdwr group=sys mode=0755
 786 file path=kernel/strmod/$(ARCH64)/ttcompat group=sys mode=0755
 787 $(sparc_ONLY)file path=kernel/strmod/$(ARCH64)/vuid3ps2 group=sys mode=0755
 788 $(i386_ONLY)file path=kernel/strmod/bufmod group=sys mode=0755
 789 $(i386_ONLY)file path=kernel/strmod/connld group=sys mode=0755
 790 $(i386_ONLY)file path=kernel/strmod/dedump group=sys mode=0755
 791 $(i386_ONLY)file path=kernel/strmod/drcompat group=sys mode=0755
 792 $(i386_ONLY)file path=kernel/strmod/ldterm group=sys mode=0755
 793 $(i386_ONLY)file path=kernel/strmod/pckt group=sys mode=0755
 794 $(i386_ONLY)file path=kernel/strmod/pfmod group=sys mode=0755
 795 $(i386_ONLY)file path=kernel/strmod/pipemod group=sys mode=0755
 796 $(i386_ONLY)file path=kernel/strmod/ptem group=sys mode=0755
 797 $(i386_ONLY)file path=kernel/strmod/redirmod group=sys mode=0755
 798 $(i386_ONLY)file path=kernel/strmod/rpcmod group=sys mode=0755
 799 $(i386_ONLY)file path=kernel/strmod/timod group=sys mode=0755
 800 $(i386_ONLY)file path=kernel/strmod/tirdwr group=sys mode=0755
 801 $(i386_ONLY)file path=kernel/strmod/ttcompat group=sys mode=0755
 802 file path=kernel/sys/$(ARCH64)/c2audit group=sys mode=0755
 803 file path=kernel/sys/$(ARCH64)/doorfs group=sys mode=0755
 804 file path=kernel/sys/$(ARCH64)/inst_sync group=sys mode=0755
 805 file path=kernel/sys/$(ARCH64)/kaio group=sys mode=0755
 806 file path=kernel/sys/$(ARCH64)/msgsys group=sys mode=0755
 807 file path=kernel/sys/$(ARCH64)/pipe group=sys mode=0755
 808 file path=kernel/sys/$(ARCH64)/portfs group=sys mode=0755
 809 file path=kernel/sys/$(ARCH64)/pset group=sys mode=0755
 810 file path=kernel/sys/$(ARCH64)/semsys group=sys mode=0755
 811 file path=kernel/sys/$(ARCH64)/shmsys group=sys mode=0755
 812 $(i386_ONLY)file path=kernel/sys/c2audit group=sys mode=0755
 813 $(i386_ONLY)file path=kernel/sys/doorfs group=sys mode=0755
 814 $(i386_ONLY)file path=kernel/sys/inst_sync group=sys mode=0755
 815 $(i386_ONLY)file path=kernel/sys/kaio group=sys mode=0755
 816 $(i386_ONLY)file path=kernel/sys/msgsys group=sys mode=0755
 817 $(i386_ONLY)file path=kernel/sys/pipe group=sys mode=0755
 818 $(i386_ONLY)file path=kernel/sys/portfs group=sys mode=0755
 819 $(i386_ONLY)file path=kernel/sys/pset group=sys mode=0755
 820 $(i386_ONLY)file path=kernel/sys/semsys group=sys mode=0755
 821 $(i386_ONLY)file path=kernel/sys/shmsys group=sys mode=0755
 822 file path=lib/svc/manifest/system/dumpadm.xml group=sys mode=0444
 823 file path=lib/svc/manifest/system/intrd.xml group=sys mode=0444
 824 file path=lib/svc/manifest/system/scheduler.xml group=sys mode=0444
 825 file path=lib/svc/method/svc-dumpadm mode=0555
 826 file path=lib/svc/method/svc-intrd mode=0555
 827 file path=lib/svc/method/svc-scheduler mode=0555
 828 file path=usr/kernel/drv/$(ARCH64)/signalfd group=sys
 829 $(i386_ONLY)file path=usr/kernel/drv/signalfd group=sys
 830 file path=usr/kernel/drv/signalfd.conf group=sys
 831 $(sparc_ONLY)file path=usr/share/man/man1m/monitor.1m
 832 $(sparc_ONLY)file path=usr/share/man/man1m/obpsym.1m
 833 # On SPARC driver/bscv is Serverblade1 specific, and in system/kernel/platform
 834 # We keep the manual page generic
 835 $(sparc_ONLY)file path=usr/share/man/man7d/dad.7d
 836 $(i386_ONLY)file path=usr/share/man/man7d/smbios.7d
 837 # Sadly vuid mouse support is in different packages on different platforms
 838 # While kstat(7D) is in SUNWcs, the structures are general
 839 hardlink path=kernel/misc/$(ARCH64)/edonr \
 840     target=../../../kernel/crypto/$(ARCH64)/edonr
 841 hardlink path=kernel/misc/$(ARCH64)/md5 \
 842     target=../../../kernel/crypto/$(ARCH64)/md5
 843 hardlink path=kernel/misc/$(ARCH64)/sha1 \
 844     target=../../../kernel/crypto/$(ARCH64)/sha1
 845 hardlink path=kernel/misc/$(ARCH64)/sha2 \
 846     target=../../../kernel/crypto/$(ARCH64)/sha2
 847 hardlink path=kernel/misc/$(ARCH64)/skein \
 848     target=../../../kernel/crypto/$(ARCH64)/skein
```

```
 849 $(i386_ONLY)hardlink path=kernel/misc/edonr target=../../kernel/crypto/edonr
 850 $(i386_ONLY)hardlink path=kernel/misc/md5 target=../../kernel/crypto/md5
 851 $(i386_ONLY)hardlink path=kernel/misc/sha1 target=../../kernel/crypto/sha1
 852 $(i386_ONLY)hardlink path=kernel/misc/sha2 target=../../kernel/crypto/sha2
 853 $(i386_ONLY)hardlink path=kernel/misc/skein target=../../kernel/crypto/skein
 854 hardlink path=kernel/socketmod/$(ARCH64)/icmp \
 855     target=../../../kernel/drv/$(ARCH64)/icmp
 856 hardlink path=kernel/socketmod/$(ARCH64)/rts \
 857     target=../../../kernel/drv/$(ARCH64)/rts
 858 hardlink path=kernel/socketmod/$(ARCH64)/tcp \
 859     target=../../../kernel/drv/$(ARCH64)/tcp
 860 hardlink path=kernel/socketmod/$(ARCH64)/udp \
 861     target=../../../kernel/drv/$(ARCH64)/udp
 862 $(i386_ONLY)hardlink path=kernel/socketmod/icmp target=../../kernel/drv/icmp
 863 $(i386_ONLY)hardlink path=kernel/socketmod/rts target=../../kernel/drv/rts
 864 $(i386_ONLY)hardlink path=kernel/socketmod/tcp target=../../kernel/drv/tcp
 865 $(i386_ONLY)hardlink path=kernel/socketmod/udp target=../../kernel/drv/udp
 866 hardlink path=kernel/strmod/$(ARCH64)/arp \
 867     target=../../../kernel/drv/$(ARCH64)/arp
 868 hardlink path=kernel/strmod/$(ARCH64)/icmp \
 869     target=../../../kernel/drv/$(ARCH64)/icmp
 870 hardlink path=kernel/strmod/$(ARCH64)/ip \
 871     target=../../../kernel/drv/$(ARCH64)/ip
 872 hardlink path=kernel/strmod/$(ARCH64)/ipsecah \
 873     target=../../../kernel/drv/$(ARCH64)/ipsecah
 874 hardlink path=kernel/strmod/$(ARCH64)/ipsecesp \
 875     target=../../../kernel/drv/$(ARCH64)/ipsecesp
 876 hardlink path=kernel/strmod/$(ARCH64)/keysock \
 877     target=../../../kernel/drv/$(ARCH64)/keysock
 878 hardlink path=kernel/strmod/$(ARCH64)/tcp \
 879     target=../../../kernel/drv/$(ARCH64)/tcp
 880 hardlink path=kernel/strmod/$(ARCH64)/udp \
 881     target=../../../kernel/drv/$(ARCH64)/udp
 882 $(i386_ONLY)hardlink path=kernel/strmod/arp target=../../kernel/drv/arp
 883 $(i386_ONLY)hardlink path=kernel/strmod/icmp target=../../kernel/drv/icmp
 884 $(i386_ONLY)hardlink path=kernel/strmod/ip target=../../kernel/drv/ip
 885 $(i386_ONLY)hardlink path=kernel/strmod/ipsecah \
 886     target=../../kernel/drv/ipsecah
 887 $(i386_ONLY)hardlink path=kernel/strmod/ipsecesp \
 888     target=../../kernel/drv/ipsecesp
 889 $(i386_ONLY)hardlink path=kernel/strmod/keysock \
 890     target=../../kernel/drv/keysock
 891 $(i386_ONLY)hardlink path=kernel/strmod/tcp target=../../kernel/drv/tcp
 892 $(i386_ONLY)hardlink path=kernel/strmod/udp target=../../kernel/drv/udp
 893 hardlink path=kernel/sys/$(ARCH64)/autofs \
 894     target=../../../kernel/fs/$(ARCH64)/autofs
 895 hardlink path=kernel/sys/$(ARCH64)/rpcmod \
 896     target=../../../kernel/strmod/$(ARCH64)/rpcmod
 897 $(i386_ONLY)hardlink path=kernel/sys/autofs target=../../kernel/fs/autofs
 898 $(i386_ONLY)hardlink path=kernel/sys/rpcmod target=../../kernel/strmod/rpcmod
 899 legacy pkg=SUNWckr \
 900     desc="core kernel software for a specific instruction-set architecture" \
 901     name="Core Solaris Kernel (Root)"
 902 license cr_Sun license=cr_Sun
 903 license lic_CDDL license=lic_CDDL
 904 license usr/src/cmd/mdb/common/libstand/THIRDPARTYLICENSE \
 905     license=usr/src/cmd/mdb/common/libstand/THIRDPARTYLICENSE
 906 license usr/src/common/bzip2/LICENSE license=usr/src/common/bzip2/LICENSE
 907 license usr/src/common/crypto/THIRDPARTYLICENSE.cryptogams \
 908     license=usr/src/common/crypto/THIRDPARTYLICENSE.cryptogams
 909 $(i386_ONLY)license usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.gladman \
 910     license=usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.gladman
 911 $(i386_ONLY)license usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.openssl \
 912     license=usr/src/common/crypto/aes/amd64/THIRDPARTYLICENSE.openssl
 913 license usr/src/common/crypto/ecc/THIRDPARTYLICENSE \
 914     license=usr/src/common/crypto/ecc/THIRDPARTYLICENSE
```

```
915 $(i386_ONLY)license usr/src/common/crypto/md5/amd64/THIRDPARTYLICENSE \
916     license=usr/src/common/crypto/md5/amd64/THIRDPARTYLICENSE
917 license usr/src/common/mpi/THIRDPARTYLICENSE \
918     license=usr/src/common/mpi/THIRDPARTYLICENSE
919 license usr/src/uts/common/inet/ip/THIRDPARTYLICENSE.rts \
920     license=usr/src/uts/common/inet/ip/THIRDPARTYLICENSE.rts
921 license usr/src/uts/common/inet/tcp/THIRDPARTYLICENSE \
922     license=usr/src/uts/common/inet/tcp/THIRDPARTYLICENSE
923 license usr/src/uts/common/io/THIRDPARTYLICENSE.etheraddr \
924     license=usr/src/uts/common/io/THIRDPARTYLICENSE.etheraddr
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926     license=usr/src/uts/common/sys/THIRDPARTYLICENSE.firmload
927 license usr/src/uts/common/sys/THIRDPARTYLICENSE.icu \
928     license=usr/src/uts/common/sys/THIRDPARTYLICENSE.icu
929 license usr/src/uts/common/sys/THIRDPARTYLICENSE.unicode \
930     license=usr/src/uts/common/sys/THIRDPARTYLICENSE.unicode
931 $(i386_ONLY)license usr/src/uts/intel/io/acpica/THIRDPARTYLICENSE \
932     license=usr/src/uts/intel/io/acpica/THIRDPARTYLICENSE
933 $(i386_ONLY)link path=boot/solaris/bin/root_archive \
934     target=../../../usr/sbin/root_archive
935 link path=dev/dld target=../devices/pseudo/dld@0:ctl
936 link path=kernel/misc/$(ARCH64)/des \
937     target=../../../kernel/crypto/$(ARCH64)/des
938 $(i386_ONLY)link path=kernel/misc/des target=../../kernel/crypto/des
```

```
*******************************************************
   25490 Sat Mar 11 21:24:11 2017
new/usr/src/uts/common/io/mem.c
7882 Add /dev/full , the always-full memory device
Reviewed by: Adam Stevko <adam.stevko@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
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  29  */

  31 /*
  32  * Memory special file
  33  */

  35 #include <sys/types.h>
  36 #include <sys/param.h>
  37 #include <sys/user.h>
  38 #include <sys/buf.h>
  39 #include <sys/systm.h>
  40 #include <sys/cred.h>
  41 #include <sys/vm.h>
  42 #include <sys/uio.h>
  43 #include <sys/mman.h>
  44 #include <sys/kmem.h>
  45 #include <vm/seg.h>
  46 #include <vm/page.h>
  47 #include <sys/stat.h>
  48 #include <sys/vmem.h>
  49 #include <sys/memlist.h>
  50 #include <sys/bootconf.h>

  52 #include <vm/seg_vn.h>
  53 #include <vm/seg_dev.h>
  54 #include <vm/seg_kmem.h>
  55 #include <vm/seg_kp.h>
  56 #include <vm/seg_kpm.h>
  57 #include <vm/hat.h>

  59 #include <sys/conf.h>
```

```
  60 #include <sys/mem.h>
  61 #include <sys/types.h>
  62 #include <sys/conf.h>
  63 #include <sys/param.h>
  64 #include <sys/systm.h>
  65 #include <sys/errno.h>
  66 #include <sys/modctl.h>
  67 #include <sys/memlist.h>
  68 #include <sys/ddi.h>
  69 #include <sys/sunddi.h>
  70 #include <sys/debug.h>
  71 #include <sys/fm/protocol.h>

  73 #if defined(__sparc)
  74 extern int cpu_get_mem_name(uint64_t, uint64_t *, uint64_t, char *, int, int *);
  75 extern int cpu_get_mem_info(uint64_t, uint64_t, uint64_t *, uint64_t *,
  76     uint64_t *, int *, int *, int *);
  77 extern size_t cpu_get_name_bufsize(void);
  78 extern int cpu_get_mem_sid(char *, char *, int, int *);
  79 extern int cpu_get_mem_addr(char *, char *, uint64_t, uint64_t *);
  80 #elif defined(__x86)
  81 #include <sys/cpu_module.h>
  82 #endif  /* __sparc */

  84 /*
  85  * Turn a byte length into a pagecount.  The DDI btop takes a
  86  * 32-bit size on 32-bit machines, this handles 64-bit sizes for
  87  * large physical-memory 32-bit machines.
  88  */
  89 #define BTOP(x) ((pgcnt_t)((x) >> _pageshift))

  91 static kmutex_t mm_lock;
  92 static caddr_t mm_map;

  94 static dev_info_t *mm_dip;       /* private copy of devinfo pointer */

  96 static int mm_kmem_io_access;

  98 static int mm_kstat_update(kstat_t *ksp, int rw);
  99 static int mm_kstat_snapshot(kstat_t *ksp, void *buf, int rw);

 101 static int mm_read_mem_name(intptr_t data, mem_name_t *mem_name);

 103 #define MM_KMEMLOG_NENTRIES     64

 105 static int mm_kmemlogent;
 106 static mm_logentry_t mm_kmemlog[MM_KMEMLOG_NENTRIES];

 108 /*
 109  * On kmem/allmem writes, we log information that might be useful in the event
 110  * that a write is errant (that is, due to operator error) and induces a later
 111  * problem.  Note that (in particular) in the event of such operator-induced
 112  * corruption, a search over the kernel address space for the corrupted
 113  * address will yield the ring buffer entry that recorded the write.  And
 114  * should it seem baroque or otherwise unnecessary, yes, we need this kind of
 115  * auditing facility and yes, we learned that the hard way: disturbingly,
 116  * there exist recommendations for "tuning" the system that involve writing to
 117  * kernel memory addresses via the kernel debugger, and -- as we discovered --
 118  * these can easily be applied incorrectly or unsafely, yielding an entirely
 119  * undebuggable "can't happen" kind of panic.
 120  */
 121 static void
 122 mm_logkmem(struct uio *uio)
 123 {
 124         mm_logentry_t *ent;
 125         proc_t *p = curthread->t_procp;
```

```
127          mutex_enter(&mm_lock);

129          ent = &mm_kmemlog[mm_kmemlogent++];

131          if (mm_kmemlogent == MM_KMEMLOG_NENTRIES)
132                  mm_kmemlogent = 0;

134          ent->mle_vaddr = (uintptr_t)uio->uio_loffset;
135          ent->mle_len = uio->uio_resid;
136          gethrestime(&ent->mle_hrestime);
137          ent->mle_hrtime = gethrtime();
138          ent->mle_pid = p->p_pidp->pid_id;

140          (void) strncpy(ent->mle_psargs,
141              p->p_user.u_psargs, sizeof (ent->mle_psargs));

143          mutex_exit(&mm_lock);
144  }

146  /*ARGSUSED1*/
147  static int
148  mm_attach(dev_info_t *devi, ddi_attach_cmd_t cmd)
149  {
150          int i;
151          struct mem_minor {
152                  char *name;
153                  minor_t minor;
154                  int privonly;
155                  const char *rdpriv;
156                  const char *wrpriv;
157                  mode_t priv_mode;
158          } mm[] = {
159              { "mem",        M_MEM,          0,      NULL,   "all",  0640 },
160              { "kmem",       M_KMEM,         0,      NULL,   "all",  0640 },
161              { "allkmem",    M_ALLKMEM,      0,      "all",  "all",  0600 },
162              { "null",       M_NULL, PRIVONLY_DEV,   NULL,   NULL,   0666 },
163              { "zero",       M_ZERO, PRIVONLY_DEV,   NULL,   NULL,   0666 },
164              { "full",       M_FULL, PRIVONLY_DEV,   NULL,   NULL,   0666 },
165          };
166          kstat_t *ksp;

168          mutex_init(&mm_lock, NULL, MUTEX_DEFAULT, NULL);
169          mm_map = vmem_alloc(heap_arena, PAGESIZE, VM_SLEEP);

171          for (i = 0; i < (sizeof (mm) / sizeof (mm[0])); i++) {
172                  if (ddi_create_priv_minor_node(devi, mm[i].name, S_IFCHR,
173                      mm[i].minor, DDI_PSEUDO, mm[i].privonly,
174                      mm[i].rdpriv, mm[i].wrpriv, mm[i].priv_mode) ==
175                      DDI_FAILURE) {
176                          ddi_remove_minor_node(devi, NULL);
177                          return (DDI_FAILURE);
178                  }
179          }

181          mm_dip = devi;

183          ksp = kstat_create("mm", 0, "phys_installed", "misc",
184              KSTAT_TYPE_RAW, 0, KSTAT_FLAG_VAR_SIZE | KSTAT_FLAG_VIRTUAL);
185          if (ksp != NULL) {
186                  ksp->ks_update = mm_kstat_update;
187                  ksp->ks_snapshot = mm_kstat_snapshot;
188                  ksp->ks_lock = &mm_lock; /* XXX - not really needed */
189                  kstat_install(ksp);
190          }
```

```
192          mm_kmem_io_access = ddi_getprop(DDI_DEV_T_ANY, devi, DDI_PROP_DONTPASS,
193              "kmem_io_access", 0);

195          return (DDI_SUCCESS);
196  }
_____unchanged_portion_omitted_

219  /*ARGSUSED1*/
220  static int
221  mmopen(dev_t *devp, int flag, int typ, struct cred *cred)
222  {
223          switch (getminor(*devp)) {
224          case M_NULL:
225          case M_ZERO:
226          case M_FULL:
227          case M_MEM:
228          case M_KMEM:
229          case M_ALLKMEM:
230                  /* standard devices */
231                  break;

233          default:
234                  /* Unsupported or unknown type */
235                  return (EINVAL);
236          }
237          /* must be character device */
238          if (typ != OTYP_CHR)
239                  return (EINVAL);
240          return (0);
241  }

243  struct pollhead mm_pollhd;

245  /*ARGSUSED*/
246  static int
247  mmchpoll(dev_t dev, short events, int anyyet, short *reventsp,
248      struct pollhead **phpp)
249  {
250          switch (getminor(dev)) {
251          case M_NULL:
252          case M_ZERO:
253          case M_FULL:
254          case M_MEM:
255          case M_KMEM:
256          case M_ALLKMEM:
257                  *reventsp = events & (POLLIN | POLLOUT | POLLPRI | POLLRDNORM |
258                      POLLWRNORM | POLLRDBAND | POLLWRBAND);
259                  /*
260                   * A non NULL pollhead pointer should be returned in case
261                   * user polls for 0 events.
262                   */
263                  *phpp = !anyyet && !*reventsp ?
264                      &mm_pollhd : (struct pollhead *)NULL;
265                  return (0);
266          default:
267                  /* no other devices currently support polling */
268                  return (ENXIO);
269          }
270  }
_____unchanged_portion_omitted_

350  #ifdef  __sparc

352  #define NEED_LOCK_KVADDR(kva)   mmpagelock(&kas, kva)

354  #else   /* __i386, __amd64 */
```

```
 356 #define NEED_LOCK_KVADDR(va)    0

 358 #endif  /* __sparc */

 360 /*ARGSUSED3*/
 361 static int
 362 mmrw(dev_t dev, struct uio *uio, enum uio_rw rw, cred_t *cred)
 363 {
 364         pfn_t v;
 365         struct iovec *iov;
 366         int error = 0;
 367         size_t c;
 368         ssize_t oresid = uio->uio_resid;
 369         minor_t minor = getminor(dev);

 371         while (uio->uio_resid > 0 && error == 0) {
 372                 iov = uio->uio_iov;
 373                 if (iov->iov_len == 0) {
 374                         uio->uio_iov++;
 375                         uio->uio_iovcnt--;
 376                         if (uio->uio_iovcnt < 0)
 377                                 panic("mmrw");
 378                         continue;
 379                 }
 380                 switch (minor) {

 382                 case M_MEM:
 383                         memlist_read_lock();
 384                         if (!address_in_memlist(phys_install,
 385                             (uint64_t)uio->uio_loffset, 1)) {
 386                                 memlist_read_unlock();
 387                                 error = EFAULT;
 388                                 break;
 389                         }
 390                         memlist_read_unlock();

 392                         v = BTOP((u_offset_t)uio->uio_loffset);
 393                         error = mmio(uio, rw, v,
 394                             uio->uio_loffset & PAGEOFFSET, 0, NULL);
 395                         break;

 397                 case M_KMEM:
 398                 case M_ALLKMEM:
 399                         {
 400                         page_t **ppp = NULL;
 401                         caddr_t vaddr = (caddr_t)uio->uio_offset;
 402                         int try_lock = NEED_LOCK_KVADDR(vaddr);
 403                         int locked = 0;

 405                         if ((error = plat_mem_do_mmio(uio, rw)) != ENOTSUP)
 406                                 break;

 408                         if (rw == UIO_WRITE)
 409                                 mm_logkmem(uio);

 411                         /*
 412                          * If vaddr does not map a valid page, as_pagelock()
 413                          * will return failure. Hence we can't check the
 414                          * return value and return EFAULT here as we'd like.
 415                          * seg_kp and seg_kpm do not properly support
 416                          * as_pagelock() for this context so we avoid it
 417                          * using the try_lock set check above.  Some day when
 418                          * the kernel page locking gets redesigned all this
 419                          * muck can be cleaned up.
 420                          */
```

```
 421                         if (try_lock)
 422                                 locked = (as_pagelock(&kas, &ppp, vaddr,
 423                                     PAGESIZE, S_WRITE) == 0);

 425                         v = hat_getpfnum(kas.a_hat,
 426                             (caddr_t)(uintptr_t)uio->uio_loffset);
 427                         if (v == PFN_INVALID) {
 428                                 if (locked)
 429                                         as_pageunlock(&kas, ppp, vaddr,
 430                                             PAGESIZE, S_WRITE);
 431                                 error = EFAULT;
 432                                 break;
 433                         }

 435                         error = mmio(uio, rw, v, uio->uio_loffset & PAGEOFFSET,
 436                             minor == M_ALLKMEM || mm_kmem_io_access,
 437                             (locked && ppp) ? *ppp : NULL);
 438                         if (locked)
 439                                 as_pageunlock(&kas, ppp, vaddr, PAGESIZE,
 440                                     S_WRITE);
 441                         }

 443                         break;

 445                 case M_FULL:
 446                         if (rw == UIO_WRITE) {
 447                                 error = ENOSPC;
 448                                 break;
 449                         }
 450                         /* else it's a read, fall through to zero case */
 451                         /*FALLTHROUGH*/

 453                 case M_ZERO:
 454                         if (rw == UIO_READ) {
 455                                 label_t ljb;

 457                                 if (on_fault(&ljb)) {
 458                                         no_fault();
 459                                         error = EFAULT;
 460                                         break;
 461                                 }
 462                                 uzero(iov->iov_base, iov->iov_len);
 463                                 no_fault();
 464                                 uio->uio_resid -= iov->iov_len;
 465                                 uio->uio_loffset += iov->iov_len;
 466                                 break;
 467                         }
 468                         /* else it's a write, fall through to NULL case */
 469                         /*FALLTHROUGH*/

 471                 case M_NULL:
 472                         if (rw == UIO_READ)
 473                                 return (0);
 474                         c = iov->iov_len;
 475                         iov->iov_base += c;
 476                         iov->iov_len -= c;
 477                         uio->uio_loffset += c;
 478                         uio->uio_resid -= c;
 479                         break;

 481                 }
 482         }
 483         return (uio->uio_resid == oresid ? error : 0);
 484 }
_____unchanged_portion_omitted_
```

```
 815 /*ARGSUSED2*/
 816 static int
 817 mmmmap(dev_t dev, off_t off, int prot)
 818 {
 819         pfn_t pf;
 820         struct memlist *pmem;
 821         minor_t minor = getminor(dev);

 823         switch (minor) {
 824         case M_MEM:
 825                 pf = btop(off);
 826                 memlist_read_lock();
 827                 for (pmem = phys_install; pmem != NULL; pmem = pmem->ml_next) {
 828                         if (pf >= BTOP(pmem->ml_address) &&
 829                             pf < BTOP(pmem->ml_address + pmem->ml_size)) {
 830                                 memlist_read_unlock();
 831                                 return (impl_obmem_pfnum(pf));
 832                         }
 833                 }
 834                 memlist_read_unlock();
 835                 break;

 837         case M_KMEM:
 838         case M_ALLKMEM:
 839                 /* no longer supported with KPR */
 840                 return (-1);

 842         case M_FULL:
 843         case M_ZERO:
 844                 /*
 845                  * We shouldn't be mmap'ing to /dev/zero here as
 846                  * mmsegmap() should have already converted
 847                  * a mapping request for this device to a mapping
 848                  * using seg_vn for anonymous memory.
 849                  */
 850                 break;

 852         }
 853         return (-1);
 854 }
_____unchanged_portion_omitted_
```

```
*******************************************************
    4432 Sat Mar 11 21:24:11 2017
new/usr/src/uts/common/sys/mem.h
7882 Add /dev/full , the always-full memory device
Reviewed by: Adam Stevko <adam.stevko@gmail.com>
Reviewed by: Toomas Soome <tsoome@me.com>
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   26 /*
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   28  * Copyright (c) 2017 James S Blachly, MD <james.blachly@gmail.com>
   29  */

   31 #ifndef _SYS_MEM_H
   32 #define _SYS_MEM_H

   34 #ifdef  __cplusplus
   35 extern "C" {
   36 #endif

   38 #include <sys/types.h>
   39 #include <sys/uio.h>

   41 /*
   42  * Memory Device Minor Numbers
   43  */
   44 #define M_MEM           0       /* /dev/mem - physical main memory */
   45 #define M_KMEM          1       /* /dev/kmem - virtual kernel memory */
   46 #define M_NULL          2       /* /dev/null - EOF & Rathole */
   47 #define M_ALLKMEM       3       /* /dev/allkmem - virtual kernel memory & I/O */
   48 #define M_ZERO          12      /* /dev/zero - source of private memory */
   49 #define M_FULL          13      /* /dev/full - write always ret ENOSPC */

   51 /*
   52  * Private ioctl for libkvm: translate virtual address to physical address.
   53  */
   54 #define MEM_VTOP                (('M' << 8) | 0x01)

   56 typedef struct mem_vtop {
   57         struct as       *m_as;
   58         void            *m_va;
   59         pfn_t           m_pfn;
```

```
   60 } mem_vtop_t;
_____unchanged_portion_omitted_
```