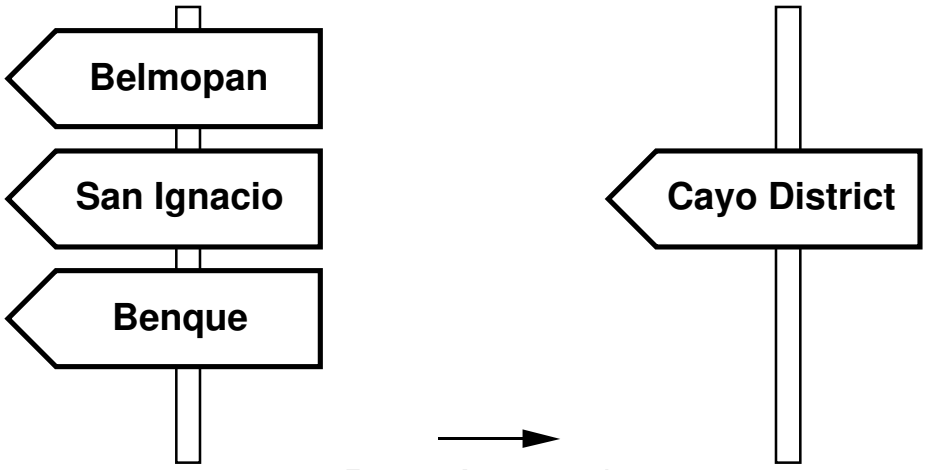
Route Aggregation

- **If several routing entries share the same prefix, and they point to the same gateway, they can be "aggregated" into a single route**



Route Aggregation

- **A *default route* forwards datagrams which don't match any other routing entry**
- **Use default if you only have one link to the Internet**

Linux IP Configuration Commands

❑ Show configuration

lsmod	*(show modules)*
ifconfig	*(show configured interfaces)*
netstat -rn	*(show routing table)*

❑ Directly-connected network

```
ifconfig eth0 x.x.x.x netmask m.m.m.m
                      broadcast b.b.b.b

route add -net n.n.n.n netmask m.m.m.m
```

x.x.x.x is our *IP number*
n.n.n.n is the *Network number (host part set to all 0's)*
b.b.b.b is the *Broadcast Addr (host part set to all 1's)*

❑ Static route

```
route add -net n.n.n.n netmask m.m.m.m
                       gw g.g.g.g
```

❑ Default route

```
route add default gw g.g.g.g
```

❑ Removing routes

```
route del -net n.n.n.n

route del default
```