S **R1** **R2** **R3** **D**

PHOP=ingress PHOP=LSR1 PHOP=LSR2 PHOP=LSR3

PATH

PATH specifies flow
and announces amount
of traffic to send

PATH

Routing finds
next-hop = R2
nothing is reserved
(PHOP stored)

PATH

PATH

D knows requirements
for new flow

RESV

RESV

RESV

RESV

D asks R3 to reserve
resources on R3→D
link for this flow

R3 can reserve enough
resources for D's flow

S asked to reserve
resources on S→R1

RESVconf

optional confirmation for D
will be sent to D

**RESV messages must follow
same route as PATH messages !!!
(using PHOP info)**

RSVP messages are sent unreliably as simple datagrams !