```
========================================================
Traceroute to CalTech:
February, 1997 -- Before Internet 2

traceroute to cithe502.cithep.caltech.edu (131.215.124.52), 30 hops max, 40 byte packets
 1  WILSON1-NP.CIT.CORNELL.EDU (128.84.44.1)  7 ms  2 ms  2 ms
 2  CCC5-NP.CIT.CORNELL.EDU (132.236.232.1)  4 ms  4 ms  9 ms
 3  CORNELLNET1.CIT.CORNELL.EDU (132.236.100.10)  85 ms  186 ms  11 ms
 4  ny-ith-1-H1/0-T3.nysernet.net (169.130.61.9)  142 ms  184 ms  222 ms
 5  ny-syr-1-H3/0-T3.nysernet.net (169.130.1.41)  46 ms  10 ms  8 ms
 6  ny-syr-2-F0/0.nysernet.net (169.130.30.2)  166 ms  196 ms  20 ms
 7  ny-dc-1-H2/0-T3.nysernet.net (169.130.1.94)  28 ms  27 ms  21 ms
 8  icm-dc-3-F1/0.icp.net (144.228.20.100)  20 ms  21 ms  26 ms
 9  icm-dc-2-F2/0.icp.net (198.67.131.34)  25 ms  22 ms  29 ms
10  icm-pen-1-H1/0-T3.icp.net (198.67.131.18)  22 ms  24 ms  24 ms
11  cerfnet.sprintnap.net (192.157.69.5)  124 ms  119 ms *
12  san-atm-ds3.cerf.net (134.24.17.100)  330 ms  265 ms *
13  riptide-fddi.cerf.net (134.24.252.10)  113 ms  97 ms  102 ms
14  owb-sdsc-ds3.cerf.net (134.24.115.200)  105 ms  107 ms  101 ms
15  pasadena-la-smds-ds3.cerf.net (134.24.95.2)  108 ms  101 ms  106 ms
16  crisco-oil-istub.caltech.edu (192.12.19.254)  98 ms  191 ms  101 ms
17  cisco.cithep.caltech.edu (131.215.3.7)  121 ms  109 ms  101 ms
18  cithe502.cithep.caltech.edu (131.215.124.52)  103 ms  103 ms  97 ms

========================================================
Traceroute to CalTech:
March, 2000 -- With Internet 2 (marginal improvement)

traceroute to CITHE502.CITHEP.CALTECH.EDU (131.215.124.52), 30 hops max, 38 byte packets
 1  lnsfw (128.84.44.1)  10 ms  10 ms  10 ms
 2  CCC1-8540-VL669.CIT.CORNELL.EDU (128.253.147.4)  10 ms  20 ms  10 ms
 3  CORNELLNET1-FAST3-0-0.CIT.CORNELL.EDU (128.253.222.159)  20 ms  20 ms  10 ms
 4  CORNELLNET3-GIG1-0-0.CIT.CORNELL.EDU (128.253.222.161)  10 ms  20 ms  10 ms
 5  abilene-cornell1.nysernet.net (199.109.6.30)  20 ms  20 ms  20 ms
 6  clev-nycm.abilene.ucaid.edu (198.32.8.29)  30 ms  40 ms  30 ms
 7  ipls-clev.abilene.ucaid.edu (198.32.8.25)  40 ms  50 ms  40 ms
 8  kscy-ipls.abilene.ucaid.edu (198.32.8.5)  40 ms  40 ms  50 ms
 9  denv-kscy.abilene.ucaid.edu (198.32.8.13)  60 ms *  60 ms
10  scrm-denv.abilene.ucaid.edu (198.32.8.1)  80 ms  80 ms  80 ms
11  losa-scrm.abilene.ucaid.edu (198.32.8.18)  90 ms  100 ms  80 ms
12  * USC--abilene.ATM.calren2.net (198.32.248.85)  80 ms  90 ms
13  UCI--USC.POS.calren2.net (198.32.248.17)  90 ms  90 ms  90 ms
14  198.32.248.126 (198.32.248.126)  90 ms  90 ms  90 ms
15  UCR--UCI.POS.calren2.net (198.32.248.13)  90 ms  90 ms  90 ms
16  CIT--UCR.POS.calren2.net (198.32.248.9)  90 ms  90 ms  90 ms
17  media-converter.caltech.edu (192.41.208.50)  90 ms  90 ms  90 ms
18  SFL-border.dmz.caltech.edu (192.12.19.252)  90 ms  90 ms  90 ms
19  Lauritsen-RSM.ilan.caltech.edu (131.215.254.112)  90 ms  90 ms  90 ms
20  HEP-router.caltech.edu (131.215.126.170)  90 ms  100 ms  90 ms
21  cithe502.cithep.caltech.edu (131.215.124.52)  100 ms  100 ms  90 ms

========================================================

February 1997 Traceroute to San Diego via vBNS:

traceroute to webster.sdsc.edu (132.249.40.21), 30 hops max, 40 byte packets
 1  WILSON1-NP.CIT.CORNELL.EDU (128.84.44.1)  1 ms  1 ms  1 ms
 2  CCC5-NP.CIT.CORNELL.EDU (132.236.232.1)  3 ms  4 ms  13 ms
 3  CORNELLNET1.CIT.CORNELL.EDU (132.236.100.10)  22 ms  9 ms  14 ms
 4  CS-VBNS.TC.CORNELL.EDU (132.236.77.248)  130 ms  5 ms  5 ms
 5  cs-atm0-0-10.dng.vbns.net (204.147.130.78)  23 ms  21 ms  21 ms
 6  cs-atm0-0-11.sdsc.vbns.net (204.147.129.93)  71 ms  75 ms  77 ms
 7  medusa.sdsc.edu (198.17.46.10)  74 ms  72 ms  73 ms
 8  tigerfish.sdsc.edu (132.249.30.11)  79 ms  138 ms  81 ms
 9  webster.sdsc.edu (132.249.40.21)  77 ms  102 ms *
```

```
==========================================================

March 2000 Traceroute to San Diego via Internet2

traceroute to 132.249.40.21 (132.249.40.21), 30 hops max, 38 byte packets
 1  lnsfw (128.84.44.1)  10 ms  10 ms  10 ms
 2  CCC1-8540-VL669.CIT.CORNELL.EDU (128.253.147.4)  20 ms  20 ms  10 ms
 3  CORNELLNET2-FAST3-0-0.CIT.CORNELL.EDU (128.253.222.160)  10 ms  10 ms  20 ms
 4  CORNELLNET3-GIG2-0-0.CIT.CORNELL.EDU (132.236.222.161)  10 ms  10 ms  20 ms
 5  abilene-cornell1.nysernet.net (199.109.6.30)  20 ms  30 ms  20 ms
 6  clev-nycm.abilene.ucaid.edu (198.32.8.29)  30 ms  30 ms  60 ms
 7  * ipls-clev.abilene.ucaid.edu (198.32.8.25)  40 ms *
 8  kscy-ipls.abilene.ucaid.edu (198.32.8.5)  50 ms  50 ms  50 ms
 9  denv-kscy.abilene.ucaid.edu (198.32.8.13)  60 ms  60 ms  60 ms
10  scrm-denv.abilene.ucaid.edu (198.32.8.1)  80 ms  80 ms  80 ms
11  losa-scrm.abilene.ucaid.edu (198.32.8.18)  90 ms  80 ms  90 ms
12  USC--abilene.ATM.calren2.net (198.32.248.85)  90 ms  80 ms *
13  UCSD--USC.POS.calren2.net (198.32.248.34)  90 ms  90 ms  90 ms
14  sdsc1--UCSD.ATM.calren2.net (198.32.248.61)  100 ms  100 ms  90 ms
15  tigerfish.sdsc.edu (132.249.30.11)  100 ms  100 ms *
16  * * *
(Webster no longer exists)

==========================================================

Possible Traceroute to CalTech via vBNS????
(Hypothesized in February 1997)

traceroute to webster.sdsc.edu (132.249.40.21), 30 hops max, 40 byte packets
 1  WILSON1-NP.CIT.CORNELL.EDU (128.84.44.1)  1 ms  1 ms  1 ms
 2  CCC5-NP.CIT.CORNELL.EDU (132.236.232.1)  3 ms  4 ms  13 ms
 3  CORNELLNET1.CIT.CORNELL.EDU (132.236.100.10)  22 ms  9 ms  14 ms
 4  CS-VBNS.TC.CORNELL.EDU (132.236.77.248)  130 ms  5 ms  5 ms
 5  cs-atm0-0-10.dng.vbns.net (204.147.130.78)  23 ms  21 ms  21 ms
 6  cs-atm0-0-11.sdsc.vbns.net (204.147.129.93)  71 ms  75 ms  77 ms
 7 ???????????
 8  owb-sdsc-ds3.cerf.net (134.24.115.200)
 9  pasadena-la-smds-ds3.cerf.net (134.24.95.2)
10  crisco-oil-istub.caltech.edu (192.12.19.254)
11  cisco.cithep.caltech.edu (131.215.3.7)
12  cithe502.cithep.caltech.edu (131.215.124.52)
```