

Joel Sivanish

HW1

Professor Thurston

9/29/2025

19) a. 2 cities in France used: Paris and Marseille

US Host: [www.cs.uchicago.edu](http://www.cs.uchicago.edu)

be3628.ccr42.jfk02.atlas.cogentco.com (154.54.27.169)

be2718.ccr42.ord01.atlas.cogentco.com (154.54.7.129)

be5586.agr22.ord01.atlas.cogentco.com (154.54.166.182)

be5407.nr61.b010917-1.ord01.atlas.cogentco.com (154.24.24.162)

port-channel4986.ccr92.cle04.atlas.cogentco.com (154.54.162.169)

38.104.103.10

192.170.192.39

192.170.192.48

www1-prod.cs.uchicago.edu (128.135.24.73)

There are 9 similar links between the two routes and it appears that the transatlantic link is the same. Transatlantic link: be3628.ccr42.jfk02.atlas.cogentco.com (154.54.27.169).

b. 2 Cities: Paris, France and Berlin, Germany

ae2.3615.ear2.Chicago2.net.lumen.tech (4.69.148.254)

UNIVERSITY.ear2.Chicago2.Level3.net (4.15.84.242)

192.170.192.37

192.170.192.50

www1-prod.cs.uchicago.edu (128.135.24.73)

There are 5 similar links between the 2 routes and it appears the transatlantic link is the same. Transatlantic link: ae2.3615.ear2.Chicago2.net.lumen.tech (4.69.148.254).

c. Source: Spokane, WA (US)

Targets: 223.5.5.5 (AliDNS / Alibaba) and 114.114.114.114 (China Telecom DNS)

\_gateway (23.147.152.58)

edge1.sttlwako.crunchbits.net (23.147.152.59)

There are 2 similar links between the 2 routes and both routes diverge before reaching China.

24) It would be better to just ship the data overnight. You can only transfer 8640000mb in a full day. To the transfer the full 40Tb, it would take approximately 37 days to transfer everything.