|  |  |
| --- | --- |
| Destination Address Range | Link interface |
| 11100000 00\*\*\*\*\*\* \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* | 0 |
| 11100000 01000000 \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* | 1 |
| 1110000\* \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* | 2 |
| otherwise | 3 |

|  |  |
| --- | --- |
| Destination Address Range | Link interface |
| 224.0.0.0/10 | 0 |
| 224.64.0.0/16 | 1 |
| 112.0.0.0/7 | 2 |
| otherwise | 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | IPv4 | CIDR | AS | Location |
| SFU | 142.58.102.68 | 142.58.0.0/16 |  | 49.2515, -122.9413 |
| UBC | 206.87.224.15 | 206.87.224.0/20 | 393249 | 49.4635, -122.822 |
| UVIC | 142.104.197.120 | 142.104.0.0/16 |  | 48.4267, -123.3655 |

|  |  |
| --- | --- |
| s1 flow table | |
| Match | Action |
| IP Src = 10.1.0.1; IP Dst = 10.2.\*.\*, 10.3.\*.\*; | Forward(4) |
| IP Src = 10.1.0.2; IP Dst = 10.2.\*.\*, 10.3.\*.\*; | Forward(1) |
| Ingress Port = 1; IP Src = 10.2.0.4; IP Dst = 10.1.0.1 | Forward(2) |
| Ingress Port = 4; IP Src = 10.2.0.4; IP Dst = 10.1.0.2 | Forward(3) |

|  |  |
| --- | --- |
| s2 flow table | |
| Match | Action |
| Ingress Port = 2; IP Src = 10.1.0.1; IP Dst = 10.2.0.3 | Forward(3) |
| Ingress Port = 2; IP Src = 10.1.0.1; IP Dst = 10.2.0.4 | Forward(4) |
| Ingress Port = 2; IP Src = 10.1.0.1; IP Dst = 10.3.\*.\* | Forward(1) |
| Ingress Port = 1; IP Src = 10.1.0.2; IP Dst = 10.3.0.3 | Forward(3) |
| Ingress Port = 1; IP Src = 10.1.0.2; IP Dst = 10.3.0.4 | Forward(4) |
| IP Src = 10.1.0.4; IP Dst = 10.1.0.1 | Forward(1) |
| IP Src = 10.1.0.4; IP Dst = 10.1.0.2 | Forward(2) |
| Ingress Port = 1; IP Src = 10.3.\*.\*; IP Dst = 10.2.0.3 | Forward(3) |
| IP Src = 10.3.\*.\*; IP Dst = 10.3.0.4 | Drop |

|  |  |
| --- | --- |
| s3 flow table | |
| Match | Action |
| Ingress Port = 4; IP Src = 10.1.0.1; IP Dst = 10.3.0.5 | Forward(2) |
| Ingress Port = 4; IP Src = 10.1.0.1; IP Dst = 10.3.0.6 | Forward(1) |
| Ingress Port = 3; IP Src = 10.1.0.2; IP Dst = 10.3.0.5 | Forward(2) |
| Ingress Port = 3; IP Src = 10.1.0.2; IP Dst = 10.3.0.6 | Forward(1) |
| Ingress Port = 3; IP Src = 10.1.0.2; IP Dst = 10.2.\*.\* | Forward(4) |
| Ingress Port = 4; IP Src = 10.2.0.4; IP Dst = 10.1.0.1 | Forward(3) |

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| --- | --- | --- | --- | --- | --- | --- |
| step | N’ | D(A), p(A) | D(B), p(B) | D(D), p(D) | D(E), p(E) | D(C), p(C) |
| 0 | s | 7, s | 2, s | 5, s | 7, s | ∞ |
| 1 | sB | 7, s |  | 4, B | 7, s | 6, B |
| 2 | sBD | 7, s |  |  | 6, D | 6, B |
| 3 | sBDC | 7, s |  |  | 6, D |  |
| 4 | sBDCE | 7, s |  |  |  |  |
| 5 | sBDCEA |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | u | v | x | y | z |
| u | 0 | 1 | ∞ | 2 | ∞ |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | u | v | x | y | z |
| u | 0 | 1 | 4 | 2 | 6 |