# NXOS Cheat Sheet v1.1 – 3/25/19

## Nexus 3000

### Code Version

| Name | Ver |
|---|---|
| andaman | 5.0(3)U1 |
| bahamas | 5.0(3)U2 |
| cayman | 5.0(3)U3 |
| cayman_plus | 5.0(3)U4 |
| culebra | 5.0(3)U5 |
| dominica | 5.0(3)A1 |
| eden_fcs_mtc | 6.0(2)A1 |
| eden_fcs_trident | 6.0(2)U1 |
| fiji | 6.0(2)U2 |
| fiji_plus | 6.0(2)U/A3 |
| goa | 6.0(2)U4 |
| Hawaii | 6.0(2)U/A5 |
| Hawaii_plus | 6.0(2)U/A6 |
| Jamaica | 6.0(2)A7 |
| Kilkenny | 6.0(2)A8 |
| Limerick | 6.0(2)A9 |
| Camden | 7.0(3)I2(1) |
| Camden+ | 7.0(3)I2(1a) |
| Dublin | 7.0(3)I3(x) |
| Dublin+ | 7.0(3)I4(x) |
| Evergreen | 7.0(3)I5(x) |
| Freeport | 7.0(3)I6(x) |
| Greensboro | 7.0(3)I7(x) |
| Hamilton | 9.2(x) |
| Fretta phase1 | 7.0(3)F1(1) |
| Fretta phase2 | 7.0(3)F2(x) |
| Coleburn | 7.0(3)F3(x) |

### Asic Types

| Name |
|---|
| Monticello |
| Broadcom Trident T+ |
| Broadcom-Trident T2 |
| Broadcom-Trident T2+ |
| Tomahawk (broadcom) |
| Jerico(broadcom) |
| Barefoot Tofino |
| Teralynx Innovium |

## Nexus 5000/6000

### Code Version

| Name | Ver |
|---|---|
| eagle_throttle | 5.0(2)N1 |
| eagle | 5.0(2)N2 |
| erocks | 5.0(3)N1 |
| erocks_plus | 5.0(3)N2 |
| fairhaven_throttle | 5.1(3)N1 |
| fairhaven | 5.1(3)N2 |
| goldcoast | 5.2(1)N1 |
| harbord | 6.0(2)N1 |
| harbord_plus | 6.0(2)N2(1) |
| hyams | 6.0(2)N2(2-6) |
| iluka | 7.0(1)N1 |
| IPLUS_MR1 | 7.1(1)N1(1) |
| JanJuc | 7.2(1)N1(1) |
| Kokomo | 7.3(1)N1(1) |
| Kokomo MR2 | 7.3(2)N1(1) |
| Kokomo MR3 | 7.3(3)N1(1) |

### Asic Types

| Name |
|---|
| gatos |
| Carmel |
| Bigsur |

End Of HW Development

## Nexus 7000

### Code Version

| Name | Ver |
|---|---|
| ankara | 4.x(x) |
| Bogota | 5.0(x) |
| cairo | 5.1(x) |
| delhi | 5.2(x) |
| edinburgh | 6.0(x) |
| edinburgh-2 | 6.1(x) |
| freetown | 6.2(x) |
| gibralter | 7.2(x) |
| helsinki | 7.3(x) |
| Ibiza | 7.4(x) |
| Atherton | 8.0(x) |
| Avalon | 8.1(x) |
| Beverly Hills | 8.2(x) |
| Cupertino | 8.3(x) |
| Davis | 8.4(x) |

### Asic Types

| Name |
|---|
| Eureka |
| Orion |
| Clipper |
| Flanker |
| Starlifter |

## Nexus 9000

### Code Version

| Name | Ver |
|---|---|
| ashfield 1 | 6.1(2)I1 |
| ashfield 2 | 6.1(2)I2 |
| ashfield 3 | 6.1(2)I3 |
| Bronte | 7.0(3)I1(1) |
| Bronte+ | 7.0(3)I1(2) |
| Camden | 7.0(3)I2(x) |
| Dublin | 7.0(3)I3(x) |
| Dublin+ | 7.0(3)I4(x) |
| Evergreen | 7.0(3)I5(x) |
| Freeport | 7.0(3)I6(x) |
| Greensboro | 7.0(3)I7(x) |
| Hamilton | 9.2(x) |
| Fretta phase1 | 7.0(3)F1(1) |
| Fretta phase2 | 7.0(3)F2(x) |
| Coleburn | 7.0(3)F3(x) |

### Asic Types

| Name |
|---|
| Broadcom-Trident T2 |
| Trident2/Northstar |
| Trident2/Donner |
| Jerico(broadcom) |
| Broadcom-Tomahawk |
| Tahoe-Sugarbowl |
| Tahoe-Lacrosse |
| Tahoe-Davos |
| Rockies-Homewood |
| Rockies-Bigsky |
| Rockies-Heavenly |
| Rockies-Sundown |
| Rockies-Sundown2 |
| Appalachia-WolfeRidge |
| Appalachia-Quadspeak |

## Tools

| Tools | Nexus 3000 Broadcom | Nexus 3100/3200 Broadcom | Nexus 3400 Tofino | Nexus 3500 Monticello | Nexus 3600-R/9500-R Jericho | Nexus 50X0 Gatos | Nexus 55XX Carmel | Nexus 56XX/6000X Bigsur | Nexus 7000 Many diff ASIC | Nexus 9000 (broadcom) | Nexus 9000 EX/FX(Tahoe) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELAM | | | | | | | | yes | yes | yes[1] | Yes | |
| Ethanalyzer | yes | yes | Yes | yes | yes | yes | yes | yes | yes | yes | yes | |
| PACL/RACL | yes | | | yes | yes[2] | yes | yes | yes | yes | yes[2] | yes[2] | |
| DPT | | | | | | | | | yes[1] | | | |
| Packet tracer | | yes[4] | | | | | | | | yes | | |
| SPAN filter | yes | yes[4] | | yes | yes | | yes | yes | yes | yes | yes | |
| Span on drop | | | | | | yes | yes | yes | | yes | yes | |
| Span to CPU | | | | | | yes | yes | yes | | yes | yes | |
| Consistency Checker | | | | | | | | | | yes[5] | yes | |
| Converged code | yes | yes | | | yes | | yes[6] | yes[6] | yes[6] | yes | yes | |

1 = Northstar/donner
2 = TCAM Carving
3 = M3/F3
4 = Converged code
5 = Dmirror
6 = limited feature support

## All ELAM Links

| Asic |
|---|
| M1 (N7k) |
| M2(N7k) |
| M3(N7k) |
| F1(N7k) |
| F2(N7k) |
| F3(N7k) |
| Bigsur(N56XX/N6k) |
| Northstar (N9k) |
| Tahoe(N9k) |

## Useful Links

| Misc |
|---|
| N7K Asic mapping |
| N9K Asic Mapping |
| N3k Asic Mapping |
| Debug plugin |
| N2K asic(end of page) |
| N9k Tahoe Asic comparison |
| All Nexus HW/SW Roadmap |
| Nexus Landing Page |
| BU Wiki |
| BU docs |
| Ethanalyzer filter |

## Queueing

| Platform | Type |
|---|---|
| M1/M2 (N7k) | Ingress with 2 stage |
| F1(N7k) | Ingress |
| F2(N7k) | Ingress |
| F3(N7k) | Ingress |
| M3(N7k) | Ingress |
| N5k/n6K | Ingress |
| 1st Gen (N9k) | Shared |
| Tahoe(N9k) | Shared |
| Fretta -R (N3k/N9k) | Ingress |
| N35XX | Shared |
| N3X00 | Shared |

## Path of Packet

| Platform | Type |
|---|---|
| M1/M2 (N7k) | |
| F1(N7k) | |
| F2(N7k) | |
| F3(N7k) | BRKARC-3470 |
| M3(N7k) | BRKARC-3470 |
| N5k/N6K | |
| 1st Gen (N9k) | BRKDCT-3101 |
| Tahoe(N9k) | BRKARC-3222 |
| Fretta | |

## HARDWARE LC and ASIC

| Platform | Asic | LC/TOR/FM |
|---|---|---|
| N3K | Monticello | N35XX |
| N3K | Broadcom-Trident T+ | 30xx |
| N3K | Broadcom-Trident T2 | 31XX |
| N3K | Broadcom-Trident T2+ | 31XX-V |
| N3K | Tomahawk (broadcom) | 32XX |
| N3K | Jerico(broadcom) | N36XX-R |
| N3K | Barefoot Tofino | C3464C, C34180YC |
| N3K | Teralynx Innovium | C3408, C34200YC C3432D |
| | | |
| N9K | Broadcom-Trident T2 | 94XX, 9636 |
| N9K | Broadcom-Tomahawk | 9432C, N9K-C950XFM-S |
| N9K | Trident2/Northstar | 9396, 93128, 95XX |
| N9K | Trident2/Donner | 9372, 9332, 93120 |
| N9K | Jerico(broadcom) | |
| N9K | Tahoe-Sugarbowl | 93XX -EX, 97XX-E/EX |
| N9K | Tahoe-Lacrosse | N92XX, C950X-FM-E |
| N9K | Tahoe-Davos | N92160YC |
| N9K | Rockies-Homewood | -F/FX/FXP |
| N9K | Rockies-Bigsky | 9364C,FM-E2, C9332C |
| N9K | Rockies-Heavenly | -FX2, C92348GC |
| N9K | Rockies-Sundown | C93180 xx-FX3 |
| N9K | Rockies-Sundown2 | C93360YC-FX3 |
| N9K | Appalachia-WolfeRidge | GX |
| N9K | Appalachia-Quadspeak | TBD |
| | | |
| N7K | Eureka | M1/M2 |
| N7K | Orion | F1 |
| N7K | Clipper | F2/F2e |
| N7K | Flanker | F3 |
| N7K | Starlifter | M3 |
| | | |
| N5K | gatos | 50XX |
| N5K | Carmel | 55XX |
| N5K/N6K | Bigsur | 56XX/6XXX |

## Input Discards

| Platform |
|---|
| F1(N7k) |
| F2(N7k) |
| F3(N7k) |
| M3(N7k) |
| N5K |
| N56XX/N6K |
| Fretta |
| N3500 |
| N3k(1st gen) |
| N9K(1st gen non cisco asic) |

## DCRS techs

| Protocol/technology |
|---|
| L2 protocols |
| L3 Protocols |
| Vxlan |
| Otv |
| Fabricpath |
| DFA |
| ITD |
| PTP |
| NTP |

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