


Figure 1: A detailed network diagram of the 100Gbps Ethernet network topology. The diagram shows a hierarchical structure starting from a core layer (W47-W62) and branching out to various access and edge layers. Key components include:

- Core Layer (W47-W62):** Consists of 16 nodes (W47-W62) connected in a mesh-like topology. Each node is labeled with its name, type (e.g., W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62), and associated parameters (e.g., $\text{d}=\text{d}(\text{W}47, \text{W}48)$, $\text{P}=\text{P}(\text{W}47, \text{W}48)$, $\text{C}=\text{C}(\text{W}47, \text{W}48)$, $\text{I}=\text{I}(\text{W}47, \text{W}48)$, $\text{K}=\text{K}(\text{W}47, \text{W}48)$).
- Access Layer (W43-W46, W40-W43, W37-W40, W34-W37, W31-W34, W28-W31, W25-W28, W22-W25, W19-W22, W16-W19, W13-W16, W10-W13, W07-W10, W04-W07, W01-W04):** Consists of 48 nodes (W43-W46, W40-W43, W37-W40, W34-W37, W31-W34, W28-W31, W25-W28, W22-W25, W19-W22, W16-W19, W13-W16, W10-W13, W07-W10, W04-W07, W01-W04) connected to the core layer. Each node is labeled with its name, type (e.g., W43, W44, W45, W46, W40, W41, W42, W43, W37, W38, W39, W40, W34, W35, W36, W37, W31, W32, W33, W34, W28, W29, W30, W31, W25, W26, W27, W28, W22, W23, W24, W25, W19, W20, W21, W22, W16, W17, W18, W19, W13, W14, W15, W16, W10, W11, W12, W13, W07, W08, W09, W10, W04, W05, W06, W07, W01, W02, W03, W04), and associated parameters (e.g., $\text{d}=\text{d}(\text{W}43, \text{W}44)$, $\text{P}=\text{P}(\text{W}43, \text{W}44)$, $\text{C}=\text{C}(\text{W}43, \text{W}44)$, $\text{I}=\text{I}(\text{W}43, \text{W}44)$, $\text{K}=\text{K}(\text{W}43, \text{W}44)$).
- Edge Layer (W00-W03, W04-W07, W08-W11, W12-W15, W16-W19, W20-W23, W24-W27, W28-W31, W32-W35, W36-W39, W40-W43, W44-W47, W48-W51, W52-W55, W56-W59, W60-W63):** Consists of 48 nodes (W00-W03, W04-W07, W08-W11, W12-W15, W16-W19, W20-W23, W24-W27, W28-W31, W32-W35, W36-W39, W40-W43, W44-W47, W48-W51, W52-W55, W56-W59, W60-W63) connected to the access layer. Each node is labeled with its name, type (e.g., W00, W01, W02, W03, W04, W05, W06, W07, W08, W09, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63), and associated parameters (e.g., $\text{d}=\text{d}(\text{W}00, \text{W}01)$, $\text{P}=\text{P}(\text{W}00, \text{W}01)$, $\text{C}=\text{C}(\text{W}00, \text{W}01)$, $\text{I}=\text{I}(\text{W}00, \text{W}01)$, $\text{K}=\text{K}(\text{W}00, \text{W}01)$).
- Router Layer (R00-R03, R04-R07, R08-R11, R12-R15, R16-R19, R20-R23, R24-R27, R28-R31, R32-R35, R36-R39, R40-R43, R44-R47, R48-R51, R52-R55, R56-R59, R60-R63):** Consists of 48 nodes (R00-R03, R04-R07, R08-R11, R12-R15, R16-R19, R20-R23, R24-R27, R28-R31, R32-R35, R36-R39, R40-R43, R44-R47, R48-R51, R52-R55, R56-R59, R60-R63) connected to the edge layer. Each node is labeled with its name, type (e.g., R00, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63), and associated parameters (e.g., $\text{d}=\text{d}(\text{R}00, \text{R}01)$, $\text{P}=\text{P}(\text{R}00, \text{R}01)$, $\text{C}=\text{C}(\text{R}00, \text{R}01)$, $\text{I}=\text{I}(\text{R}00, \text{R}01)$, $\text{K}=\text{K}(\text{R}00, \text{R}01)$).
- Switch Layer (S00-S03, S04-S07, S08-S11, S12-S15, S16-S19, S20-S23, S24-S27, S28-S31, S32-S35, S36-S39, S40-S43, S44-S47, S48-S51, S52-S55, S56-S59, S60-S63):** Consists of 48 nodes (S00-S03, S04-S07, S08-S11, S12-S15, S16-S19, S20-S23, S24-S27, S28-S31, S32-S35, S36-S39, S40-S43, S44-S47, S48-S51, S52-S55, S56-S59, S60-S63) connected to the router layer. Each node is labeled with its name, type (e.g., S00, S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63), and associated parameters (e.g., $\text{d}=\text{d}(\text{S}00, \text{S}01)$, $\text{P}=\text{P}(\text{S}00, \text{S}01)$, $\text{C}=\text{C}(\text{S}00, \text{S}01)$, $\text{I}=\text{I}(\text{S}00, \text{S}01)$, $\text{K}=\text{K}(\text{S}00, \text{S}01)$).
- Server Layer (W00-W03, W04-W07, W08-W11, W12-W15, W16-W19, W20-W23, W24-W27, W28-W31, W32-W35, W36-W39, W40-W43, W44-W47, W48-W51, W52-W55, W56-W59, W60-W63):** Consists of 48 nodes (W00-W03, W04-W07, W08-W11, W12-W15, W16-W19, W20-W23, W24-W27, W28-W31, W32-W35, W36-W39, W40-W43, W44-W47, W48-W51, W52-W55, W56-W59, W60-W63) connected to the switch layer. Each node is labeled with its name, type (e.g., W00, W01, W02, W03, W04, W05, W06, W07, W08, W09, W10, W11, W12, W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63), and associated parameters (e.g., $\text{d}=\text{d}(\text{W}00, \text{W}01)$, $\text{P}=\text{P}(\text{W}00, \text{W}01)$, $\text{C}=\text{C}(\text{W}00, \text{W}01)$, $\text{I}=\text{I}(\text{W}00, \text{W}01)$, $\text{K}=\text{K}(\text{W}00, \text{W}01)$).

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