

Figure 1: UDP frag distribution. The chart displays the number of UDP fragments (No. of NS) for different paths and PMTUD status across four EDNS0 versions (512, 1232, 1232, 4096). The y-axis ranges from 0 to 40K. The x-axis shows paths 1280 (no PMTUD) and 1500 (PMTUD) for each version. A legend indicates 'UDP frag'.

EDNS0 version	Path	PMTUD Status	Approx. No. of NS
EDNS0:512	1280	no PMTUD	~25K
	1500	PMTUD	~25K
EDNS0:1232	1280	no PMTUD	~25K
	1500	PMTUD	~25K
EDNS0:1232	1280	no PMTUD	~25K
	1500	PMTUD	~25K
EDNS0:4096	1280	no PMTUD	~25K
	1500	PMTUD	~25K

Figure 10 is a bar chart titled "No. of NS" on the y-axis, which ranges from 0 to 40K. The x-axis is divided into three main sections: IPv4, IPv6, and Dual-Stack. Each section contains three sub-sections corresponding to different network sizes: EDNS0:512, EDNS0:1232, and EDNS0:4096. Within each sub-section, there are three bars representing different paths: Path 1500, Path 1280 (no PMTUD), and Path 1280 (no PMTUD). The bars are color-coded: light blue for Path 1500, light green for Path 1280 (no PMTUD), and light red for Path 1280 (no PMTUD). The chart shows that the number of nodes is generally higher for the Dual-Stack configuration compared to IPv4 and IPv6, and that the number of nodes increases with the network size (EDNS0:512 to EDNS0:4096).

Configuration	Network Size	Path	No. of NS (approx.)
IPv4	EDNS0:512	Path 1500	~15K
		Path 1280 (no PMTUD)	~15K
		Path 1280 (no PMTUD)	~15K
	EDNS0:1232	Path 1500	~15K
		Path 1280 (no PMTUD)	~15K
		Path 1280 (no PMTUD)	~15K
EDNS0:4096	Path 1500	~30K	
	Path 1280 (no PMTUD)	~30K	
	Path 1280 (no PMTUD)	~30K	
IPv6	EDNS0:512	Path 1500	~15K
		Path 1280 (no PMTUD)	~15K
		Path 1280 (no PMTUD)	~15K
	EDNS0:1232	Path 1500	~15K
		Path 1280 (no PMTUD)	~15K
		Path 1280 (no PMTUD)	~15K
EDNS0:4096	Path 1500	~30K	
	Path 1280 (no PMTUD)	~30K	
	Path 1280 (no PMTUD)	~30K	
Dual-Stack	EDNS0:512	Path 1500	~30K
		Path 1280 (no PMTUD)	~30K
		Path 1280 (no PMTUD)	~30K
	EDNS0:1232	Path 1500	~30K
		Path 1280 (no PMTUD)	~30K
		Path 1280 (no PMTUD)	~30K
EDNS0:4096	Path 1500	~30K	
	Path 1280 (no PMTUD)	~30K	
	Path 1280 (no PMTUD)	~30K	

Protocol	EDNS0 Flag	Path MTU Setting	No. of Conn (Approx.)
IPv4	EDNS0:512	Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
		Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
	EDNS0:1232	Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
		Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
	EDNS0:4096	Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
		Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
IPv6	EDNS0:512	Path 1280 (no PMTUD)	150K
		Path 1280 (PMTUD)	150K
		Path 1280 (no PMTUD)	150K
		Path 1280 (PMTUD)	150K
	EDNS0:1232	Path 1280 (no PMTUD)	150K
		Path 1280 (PMTUD)	150K
		Path 1280 (no PMTUD)	150K
		Path 1280 (PMTUD)	150K
	EDNS0:4096	Path 1280 (no PMTUD)	150K
		Path 1280 (PMTUD)	150K
		Path 1280 (no PMTUD)	150K
		Path 1280 (PMTUD)	150K
Dual-Stack	EDNS0:512	Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
		Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
	EDNS0:1232	Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
		Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
	EDNS0:4096	Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K
		Path 1280 (no PMTUD)	225K
		Path 1280 (PMTUD)	225K

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