

**pfloat16d, pfloat32d, pfloat64d**

5	15	1 1 1 1 1 1 1 1 1 1 1	inf and nan	511	2047				
		1 1 1 1 1 1 1 1 1 1 0		2^1023	510		2046		
		1 1 1 1 1 1 1 1 0 1 0		2^1022	509		2045		
		0 0 0 0 0 0 0 0 0 1 0		2^515	2		1538		
		0 0 0 0 0 0 0 0 0 0 1		2^514	1		1537		
		0 0 0 0 0 0 0 0 0 0 0		2^513	0		1536	1536	
		1 1 1 1 1 1 1 1 1 1 1		2^512	255		1535		
		1 1 1 1 1 1 1 1 1 1 0		2^511	254		1534		
		1 1 1 1 1 1 1 1 0 1 1		2^510	253		1533		
		0 0 0 0 0 0 0 0 1 1 0		2^259	2		1282		
		0 0 0 0 0 0 0 0 0 1 1		2^258	1		1281		
		0 0 0 0 0 0 0 0 0 0 0		2^257	0		1280		1280
		1 1 1 1 1 1 1 1 1 1 1		2^256	127		1279		
		1 1 1 1 1 1 1 1 1 1 0		2^255	126		1278		
		1 1 0 0 1 1 1 0 1 1		2^254	125		1277		
0 0 0 0 0 0 0 1 1 0	2^131	2	1154						
0 0 0 0 0 0 0 0 1 1	2^130	1	1153						
0 0 0 0 0 0 0 0 0 0 0	2^129	0	1152	1152					
1 1 1 1 1 1 1 1 1 1 1	2^128	63	1151						
1 1 0 0 1 1 1 1 0	2^127	62	1150						
1 0 1 1 1 0 1 1	2^126	61	1149						
0 0 0 0 0 1 1 0	2^68	2	1090						
0 0 0 0 0 0 1 1	2^67	1	1089						
0 0 0 0 0 0 0 0 0	2^65	0	1088		1088				
1 1 1 1 1 1 1 1	2^64	31	1087						
1 1 1 1 1 1 0	2^63	30	1086						
1 1 1 1 0 1 1	2^62	29	1085						
0 0 0 0 1 1 0	2^35	2	1058						
0 0 0 0 0 1 1	2^34	1	1057						
0 0 0 0 0 0 0 0	2^33	0	1056			1056			
1 1 1 1 1 1 1	2^32	15	1055						
1 1 1 1 1 0	2^31	14	1054						
1 1 1 0 1 1	2^30	13	1053						
0 0 0 1 1 0	2^19	2	1042						
0 0 0 0 1 1	2^18	1	1041						
0 0 0 0 0 0	2^17	0	1040	1040					
1 1 1 1 1 1	2^16	7	1039						
1 1 1 0	2^15	6	1038						
1 0 0 0	2^14	5	1037						
1 0 0 0	2^13	4	1036						
0 1 1 1	2^12	3	1035						
0 1 0 0	2^11	2	1034						
0 0 1 1	2^10	1	1033						
0 0 0 0	2^9	0	1032		1032				
1 1 1 1 1 1	2^8	7	1031						
1 1 1 0	2^7	6	1030						
1 0 0 0	2^6	5	1029						
1 0 0 0	2^5	4	1028						
0 1 1 1	2^4	3	1027						
0 1 0 0	2^3	2	1026						
0 0 1 1	2^2	1	1025						
0 0 0 0	2^1	0	1024	1024					
1 1 1 1 1 1	2^0	7	1023						
1 1 1 0	2^1	6	1022						
1 0 0 0	2^2	5	1021						
1 0 0 0	2^3	4	1020						
0 1 1 1	2^4	3	1019						
0 1 0 0	2^5	2	1018						
0 0 1 1	2^6	1	1017						
0 0 0 0	2^7	0	1016		1016				
1 1 1 1 1 1	2^8	7	1015						
1 1 1 0	2^9	6	1014						
1 0 0 0	2^10	5	1013						
1 0 0 0	2^11	4	1012						
0 1 1 1	2^12	3	1011						
0 1 0 0	2^13	2	1010						
0 0 1 1	2^14	1	1009						
0 0 0 0	2^15	0	1008	1008					
1 1 1 1 1 1	2^16	15	1007						
1 1 1 1 0	2^17	14	1006						
1 1 1 0 1 1	2^18	13	1005						
0 0 0 1 1 0	2^16	2	994						
0 0 0 0 1 1	2^16	1	993						
0 0 0 0 0 0	2^31	0	992			992			
1 1 1 1 1 1 1 1	2^32	31	991						
1 1 1 1 1 1 0	2^33	30	990						
1 1 1 1 0 1 1	2^34	29	989						
0 0 0 0 1 1 0	2^61	2	962						
0 0 0 0 0 1 1	2^62	1	961						
0 0 0 0 0 0 0	2^63	0	960		960				
1 1 1 1 1 1 1 1 1	2^64	63	959						
1 1 0 0 1 1 1 0	2^65	62	958						
1 0 1 1 1 0 1 1	2^67	61	957						
0 0 0 0 0 1 1 0	2^125	2	8						

pfloat  
ends  
here

Same or more mantissa bits  
bits compared to bfloat16  
or float respectively