

IEEE倍精度機械実数システム

			ビット配置(64bits)			2進数値			10進数値	
			1bit	11bits	52bits	符号	2進指数	2進仮数		
			符号部	指数部	仮数部					
NAN			0	11...11	11...11 ↑ 00...01					
+∞			0	11...11	00...00	+				
正数	正規数	>1	0	11...10 ↑ 01...11	11...11 ↑ 00...01	+	1023 ↑ 0	1.11...11 ↑ 1.00...01	1.79...×10 ³⁰⁸ ↑ 1.00000 00000 00000 22	
		1	0	01...11	00...00	+	0	1.00...00	1	
		<1	0	01...10 ↑ 00...01	11...11 ↑ 00...00	+	-1 ↑ -1022	1.11...11 ↑ 1.00...00	0.99999 99999 99999 78 ↑ 2.22507 38585 07201 38 × 10 ⁻³⁰⁸	
	副正規数		0	00...00 ↑ 00...01	11...11 ↑ 00...01	+	-1022	0.11...11 ↑ 0.00...01	2.22507 38585 07200 89 × 10 ⁻³⁰⁸ ↑ 4.94065 64584 12465 44 × 10 ⁻³²⁴	
	零		+0	0	00...00	00...00	+		0.00...00	0
			-0	1	00...00	00...00	-		0.00...00	0
負数	副正規数		1	00...00 ↓ 11...11	00...01 ↓ 11...11	-	-1022	0.00...01 ↓ 0.11...11	-4.94065 64584 12465 44 × 10 ⁻³²⁴ ↑ -2.22507 38585 07200 89 × 10 ⁻³⁰⁸	
	正規数	>-1	1	00...01 ↓ 01...10	00...00 ↓ 11...11	-	-1022 ↓ -1	1.00...00 ↓ 1.11...11	-2.22507 38585 07201 38 × 10 ⁻³⁰⁸ ↑ -0.99999 99999 99999 78	
		-1	1	00...01	00...00	-	0	1.00...00	-1	
		<-1	1	01...11 ↓ 11...10	00...01 ↓ 11...11	-	0 ↓ 1023	1.00...01 ↓ 1.11...11	-1.00000 00000 00000 22 ↑ -1.79...×10 ³⁰⁸	
	-∞			1	11...11	00...00	-			
	NAN			1	11...11	00...01 ↓ 11...11				