

BUREAU INTERNATIONAL DES POIDS ET MESURES

Key comparison CCTF-K001.UTC - Results
Degrees of equivalence $D_k = [UTC - UTC(k)]$ for December 2024
Computed 2025 JANUARY 10, 10h UTC

Coordinated Universal Time **UTC** and its local realizations **UTC(k)** in National Metrology Institutes and Designated Institutes.
Computed values of $[UTC - UTC(k)]$ and uncertainties valid for the period of this publication

Date 2024 0h UTC	DEC 5	DEC 10	DEC 15	DEC 20	DEC 25	DEC 30	Uncertainty/ns		
MJD	60649	60654	60659	60664	60669	60674			
Laboratory k	$[UTC - UTC(k)]/ns$						U_a	U_b	U_k
BelGIM	-2.5	-1.0	-1.1	-1.2	-0.1	-0.2	3.0	6.2	6.8
BEV	16.7	11.4	0.2	-4.9	-18.2	-29.5	0.4	5.8	5.8
BFKH	759.9	803.7	855.0	906.1	954.5	996.5	1.4	14.2	14.2
BIM	2554.0	2605.8	2656.8	2712.1	2759.3	2808.8	0.4	5.2	5.2
BMM	2479.2	2502.6	2514.3	2547.2	2570.0	2580.6	0.4	5.6	5.6
BSJ	10.8	6.6	12.8	9.4	9.7	16.1	14.0	14.0	19.8
CENAM	-1.9	-4.5	-4.9	-4.2	-4.3	-0.5	6.0	8.6	10.4
CENAMAP AIP	0.8	0.1	-0.6	4.3	6.6	-5.6	0.4	11.0	11.0
DEF-NAT	-6471.7	-6565.6	-6658.2	-6746.7	-6832.5	-6927.1	1.4	5.2	5.4
DFM	21.1	24.3	27.4	30.7	33.7	37.4	0.4	5.4	5.4
DZM	74.4	70.5	69.7	57.9	61.1	58.0	0.4	5.2	5.2
EMI	-	-	-	-	-	-			
ESA	-0.2	-0.6	0.6	0.8	1.4	2.3	0.4	5.4	5.4
FTMC	629.2	641.0	654.9	664.5	675.7	695.6	0.4	5.2	5.2
GUM	-0.9	-1.0	-0.9	-1.0	-1.3	-0.8	0.4	2.0	2.0
IBMETRO	428.5	420.7	-	407.5	410.4	421.6	8.0	15.2	17.2
ILNAS	-7.8	-1.7	5.8	4.1	-6.1	-11.7	0.4	5.2	5.2
IMBIH	1.9	-1.9	-6.2	-1.0	0.7	3.0	0.4	5.6	5.6
INACAL	23.7	0.7	-6.1	8.3	29.7	6.5	10.0	NC	- (*)
INM	499.6	501.2	503.7	-	-	-	0.4	15.6	15.6
INM(CO)	-	-	22.6	-25.9	-37.4	-60.3	6.0	NC	- (*)
INMETRO	4.6	-5.8	-5.3	1.9	-2.4	-1.1	0.4	6.4	6.4
INPL	-34.7	-28.1	-23.4	-31.6	-44.0	-48.0	0.4	15.2	15.2
INRIM	0.5	0.5	0.4	0.2	0.3	0.7	0.4	2.0	2.0
INTI	189.7	209.5	205.9	211.5	218.5	213.0	0.4	6.4	6.4
IPE/ASCR	10.8	-1.5	0.6	-0.6	0.2	-3.0	0.4	6.0	6.0
IPQ	1636.2	1644.5	1663.9	1677.7	1683.1	1693.7	1.0	6.0	6.0

JV	-1.7	-2.1	-2.6	-1.8	-0.2	1.0	0.4	9.6	9.6
KazStandard	-2.0	-3.0	-2.6	-1.3	-0.7	-0.7	1.4	8.6	8.8
KRISS	-2.3	-3.8	-2.6	-0.1	1.3	1.2	0.4	5.8	5.8
LAMETRO-ICE	15.4	15.2	0.2	8.7	-10.2	-12.5	0.4	14.2	14.2
LNE-SYRTE	0.7	1.1	0.9	1.2	0.9	0.9	0.4	2.0	2.0
MASM	-466.1	-601.8	-734.3	-866.3	-985.8	-1118.7	0.4	7.0	7.0
METAS	0.7	-1.6	-2.5	-2.4	-2.3	-1.2	0.4	2.0	2.0
MIKES	-1.0	-0.8	-0.6	1.4	3.2	4.0	0.4	5.2	5.2
MIRS/SIQ/Metrology	769.8	790.0	794.3	808.9	816.8	816.1	0.4	8.2	8.2
MSL	33.7	32.1	32.9	26.5	29.7	31.6	1.4	5.8	6.0
NICT	0.8	1.3	2.0	2.4	2.0	1.7	0.4	3.6	3.6
NIM	1.0	1.1	1.2	1.2	1.2	1.7	0.4	3.6	3.6
NIMT	20.1	16.8	6.7	9.3	7.6	-14.7	0.4	5.8	5.8
NIS	11.1	-85.8	-85.9	-86.2	-77.9	-67.1	1.0	14.4	14.4
NIST	-0.0	-1.2	-1.7	-1.2	-0.5	0.1	0.4	4.0	4.0
NMC, A*STAR	2.6	7.9	-4.1	-7.0	-10.7	2.5	0.4	5.2	5.2
NMIA	34.7	37.8	27.5	37.9	49.0	55.7	0.4	5.8	5.8
NMIJ AIST	43.7	65.6	53.3	46.8	51.8	39.0	0.4	5.6	5.6
NMIM	129.8	128.6	134.3	144.1	157.0	159.3	0.4	5.2	5.2
NMISA	1.7	8.7	-2.5	8.4	11.5	-9.3	14.0	7.0	15.6
NPL	1.3	2.8	2.1	0.5	1.8	2.1	0.4	2.0	2.0
NPLI	0.9	0.8	0.7	0.5	0.2	0.3	0.4	5.2	5.2
NRC	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.4	5.2	5.2
NSAI NML	-108.7	-107.2	-104.9	-125.8	-87.9	-49.9	0.4	14.6	14.6
NSC IM	-1.7	-1.4	-22.4	-8.7	-21.1	-13.9	6.0	14.8	16.0
ON/DSHO	-0.0	-0.5	0.8	3.2	5.1	3.7	1.4	6.4	6.6
PTB	-1.2	-1.1	-0.9	-1.0	-0.9	-0.7	0.4	2.0	2.0
RISE	-1.2	-0.8	-0.3	-0.2	-0.4	-0.2	0.4	2.0	2.0
ROA	-1.4	0.0	-0.3	-2.0	-3.0	-2.2	0.4	2.0	2.0
SASO-NMCC	95.2	107.8	116.3	125.3	136.3	144.9	0.4	7.4	7.4
SCL	0.4	-3.7	-8.6	-10.5	-14.9	-23.3	0.4	7.2	7.2
SMD	-0.8	-0.8	-0.7	-1.0	-0.7	-0.2	0.4	7.6	7.6
SMU	-109.4	-130.4	-121.1	-165.3	-115.8	-101.1	1.4	NC	- (*)
SNSU-BSN	-516.0	-533.1	-546.4	-555.9	-570.2	-591.0	0.4	NC	- (*)
TL	1.1	1.3	0.7	0.2	0.3	2.1	0.4	3.6	3.6
UME	-0.0	-0.6	-3.1	-1.3	0.6	-4.4	0.4	8.0	8.0
UzNIM	-130.1	-139.9	-149.0	-159.2	-168.4	-176.0	0.4	14.2	14.2
VMI-STAMEQ	-1.3	14.6	13.2	-16.6	-20.1	-20.0	1.4	5.6	5.8
VNIFTRI	-1.2	-1.3	-1.1	-0.8	-0.6	-0.6	0.4	4.2	4.2
VSL	-3.0	-2.2	-0.7	0.6	1.6	2.5	0.4	2.2	2.2
ZMDM	0.9	-1.7	-5.8	-9.0	-16.3	-16.8	0.4	8.0	8.0

(*) U_a expanded uncertainty guarantees only the traceability in frequency