

BUREAU INTERNATIONAL DES POIDS ET MESURES

Key comparison CCTF-K001.UTC - Results
Degrees of equivalence $D_k = [UTC - UTC(k)]$ for November 2024
Computed 2024 DECEMBER 12, 15h 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	NOV 5	NOV 10	NOV 15	NOV 20	NOV 25	NOV 30	Uncertainty/ns		
MJD	60619	60624	60629	60634	60639	60644			
Laboratory <i>k</i>	$[UTC - UTC(k)]/ns$						U_a	U_b	U_k
BelGIM	-2.4	-1.9	-2.4	-2.3	-2.3	-2.3	3.0	6.2	6.8
BEV	41.4	40.9	31.6	25.6	22.4	24.8	0.4	5.8	5.8
BFKH	12466.2	515.9	564.0	613.3	659.0	712.7	1.4	14.2	14.2
BIM	2257.1	2308.6	2359.9	2411.6	2458.1	2499.3	0.4	5.2	5.2
BMM	2343.5	2361.1	2385.6	2403.6	2434.6	2451.5	0.4	5.6	5.6
BSJ	22.6	19.8	7.7	-	16.7	10.5	14.0	14.0	19.8
CENAM	-1.6	-2.5	0.4	0.7	0.6	0.3	6.0	8.6	10.4
CENAMAP AIP	-5.0	0.6	-4.3	0.6	5.0	0.7	0.4	11.0	11.0
DEF-NAT	-5947.4	-6051.8	-6131.1	-6213.0	-6296.3	-6383.0	1.4	5.2	5.4
DFM	-	7.1	14.1	16.3	19.3	18.6	0.4	5.4	5.4
DZM	71.0	70.7	72.4	70.1	71.1	75.1	0.4	5.2	5.2
EMI	-	-	-	-	-	-			
ESA	1.2	1.1	6.5	3.9	-0.4	-0.5	0.4	5.4	5.4
FTMC	586.4	588.5	598.6	608.5	612.6	623.8	0.4	5.2	5.2
GUM	-2.1	-2.2	-2.0	-2.2	-1.7	-1.6	0.4	2.0	2.0
IBMETRO	422.3	415.5	405.9	402.0	405.9	404.0	8.0	15.2	17.2
ILNAS	-9.2	-11.5	-3.2	-10.4	-13.8	-15.3	0.4	5.2	5.2
IMBIH	-1.1	-3.1	-4.8	-1.9	-2.7	-3.5	0.4	5.6	5.6
INACAL	431.7	422.2	20.1	10.3	8.1	18.6	10.0	NC	- (*)
INM	479.3	482.7	493.0	493.3	491.1	496.8	0.4	15.6	15.6
INM(CO)	-21.7	-19.3	-11.5	-18.7	-	-	6.0	NC	- (*)
INMETRO	-5.0	2.3	3.4	-1.1	4.2	-5.7	0.4	6.4	6.4
INPL	-10.0	-17.3	-7.9	-14.2	-17.8	-32.9	0.4	15.2	15.2
INRIM	-0.2	-0.2	0.1	0.4	0.7	0.6	0.4	2.0	2.0
INTI	185.3	179.6	185.2	191.6	188.2	183.0	0.4	6.4	6.4
IPE/ASCR	13.0	16.8	12.6	17.1	17.1	12.0	0.4	5.8	5.8
IPQ	1566.4	1577.7	-	1609.8	1626.5	1631.9	0.8	5.8	5.8

JV	-3.0	-3.4	-2.8	-0.8	0.6	-0.7	0.4	9.6	9.6
KazStandard	-0.0	0.4	0.2	-0.5	-0.4	-0.8	1.4	8.4	8.6
KRISS	1.7	1.1	-0.8	1.8	3.3	0.4	0.4	5.8	5.8
LAMETRO-ICE	26.4	23.3	13.6	16.5	29.1	20.8	0.4	14.0	14.0
LNE-SYRTE	0.4	0.4	1.3	1.5	1.4	0.9	0.4	2.0	2.0
MASM	-738.7	-846.4	-973.6	-92.3	-212.3	-336.3	0.4	7.0	7.0
METAS	0.8	-0.9	-2.5	-1.4	-0.5	0.3	0.4	2.0	2.0
MIKES	-5.7	-5.9	-5.7	-4.0	-2.1	-1.5	0.4	5.2	5.2
MIRS/SIQ/Metrology	699.8	721.9	724.3	728.2	738.3	758.7	0.4	8.2	8.2
MSL	10.0	8.6	11.0	21.2	27.2	22.2	1.4	5.8	6.0
NICT	-1.9	-1.4	-1.0	-0.7	-0.2	0.4	0.4	3.6	3.6
NIM	0.3	-0.0	0.3	0.4	0.6	1.1	0.4	3.6	3.6
NIMT	19.6	15.0	13.4	13.2	7.2	0.7	0.4	5.8	5.8
NIS	0.2	4.2	1.5	1.4	3.4	10.0	1.0	14.4	14.4
NIST	1.5	1.3	1.7	2.4	2.4	1.6	0.4	4.0	4.0
NMC, A*STAR	-3.3	0.8	-2.4	-6.9	-13.8	-10.5	0.4	5.2	5.2
NMIA	24.2	25.8	23.1	21.2	14.7	24.7	0.4	5.8	5.8
NMIJ AIST	-27.9	-26.9	-27.8	-18.8	-2.3	19.4	0.4	5.6	5.6
NMIM	66.9	77.6	84.9	98.8	107.5	114.9	0.4	5.2	5.2
NMISA	-14.8	-2.2	0.1	-7.1	0.7	2.4	3.0	7.0	7.6
NPL	3.3	3.5	3.4	1.3	0.8	1.0	0.4	2.0	2.0
NPLI	-0.4	-0.3	0.1	0.4	0.6	0.9	0.4	5.2	5.2
NRC	-0.9	-1.2	-1.1	-1.0	-0.8	-0.5	0.4	5.2	5.2
NSAI NML	-108.2	-115.8	-114.7	-116.0	-109.6	-109.5	0.4	14.6	14.6
NSC IM	-7.1	-	-0.9	-13.2	-	-	6.0	14.8	16.0
ON/DSHO	-2.0	-	-0.4	-4.3	0.3	0.9	1.4	6.2	6.4
PTB	-1.0	-1.0	-1.1	-1.1	-1.1	-1.2	0.4	2.0	2.0
RISE	-1.5	-1.6	-1.6	-1.5	-1.3	-1.4	0.4	2.0	2.0
ROA	-3.7	-1.9	-1.9	-2.8	-3.2	-2.6	0.4	2.0	2.0
SASO-NMCC	52.8	59.3	61.2	72.5	78.4	88.5	1.4	7.6	7.8
SCL	-12.3	-13.0	-8.4	-2.5	-2.6	-3.4	0.4	7.2	7.2
SMD	-0.3	-0.7	-0.9	-0.9	-0.7	-0.8	0.4	7.6	7.6
SMU	-26.2	17.9	54.2	-17.4	-21.5	-91.1	1.4	NC	- (*)
SNSU-BSN	-458.0	-466.6	-481.0	-481.9	-500.4	-505.2	0.4	NC	- (*)
TL	1.7	1.0	0.5	-1.1	-2.0	-1.9	0.4	3.4	3.4
UME	-2.3	-0.9	-0.9	-0.9	-3.4	-4.1	0.4	8.0	8.0
UzNIM	-51.7	-61.8	-73.7	-87.6	-101.1	-118.1	0.4	14.2	14.2
VMI-STAMEQ	-11.4	19.3	14.4	-7.3	-24.3	-27.5	1.4	5.6	5.8
VNIFTRI	-1.8	-1.5	-1.7	-1.5	-1.7	-1.5	0.4	4.0	4.0
VSL	-4.7	-1.8	-1.3	0.3	3.0	-3.6	0.4	2.2	2.2
ZMDM	-6.8	-4.8	-13.7	-15.5	-15.9	-8.3	0.4	7.8	7.8

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