

General structure and terminology of BIPM codes for atomic clock and psfs data

The BIPM code of a Cesium clock (unchanged rule) is composed of 7 digits as :

the statistical index	⇒	one digit (always 1), for internal use at BIPM
the clock type/maker	⇒	two digits
the clock serial number	⇒	last four digits

The BIPM code of a hydrogen maser already contributing to TAI in August 2017 (unchanged rule) is composed of 7 digits as :

the statistical index	⇒	one digit (always 1), for internal use at BIPM
the clock type	⇒	two digits (always 40)
the last two digits of the laboratory code	⇒	two digits
ordinal number of the clock in the laboratory or	⇒	two digits
the last two digits of the clock serial number		

The BIPM code of a non-Cesium atomic clock that starts contributing to TAI after August 2017 is composed of 7 digits as :

the statistical index	⇒	one digit (always 1), for internal use at BIPM
the clock type	⇒	two digits
the clock model/maker	⇒	two digits
the last two digits of the clock serial number		

The BIPM code of a primary or secondary frequency standard (unchanged rule) is composed of 7 digits as :

the statistical index	⇒	one digit (always 1), for internal use at BIPM
the transition type	⇒	two digits
the last two digits code of the laboratory	⇒	two digits
the ordinal number of the psfs in the laboratory	⇒	two digits
(this number identifies the psfs and should not be modified)		

Code of the laboratory can be accessed at : <http://webtai.bipm.org/database/labcode.html>.

Codes for clock types, clock transition and clock models can be accessed at : <http://webtai.bipm.org/database/clock.html>.

A dedicated tool has been created to automatically generate a clock code : <http://webtai.bipm.org/database/howtoclk.html>. (Please inform the BIPM of any new clock code assigned with the tool).

Examples:

Clock type	Statistical index	Clock type code	serial number	
Cs clocks				
H-P/Agilent/Symmetricom 5071A High perf.	1	35	XXXX	
H-P/Agilent/Symmetricom 5071A Low perf.	1	36	XXXX	
			two last digit of the BIPM laboratory code	Ordinal number of the clock in the laboratory (in 2 digits) or the last two digits of the serial number
Hydrogen masers				
T4S-iMaser 3000 ACTIVE HYDROGEN MASER	1	4110	XX	
VCH-1003A ACTIVE HYDROGEN MASER	1	4150	XX	
VCH-1033 ACTIVE HYDROGEN MASER	1	4151	XX	
Primary Frequency Standard, Cs transition	1	92	XX	XX
Secondary Frequency Standard, Rb transition	1	93	XX	XX

Examples of running Primary and Secondary Frequency Standards

Acronyms	BIPM codes	PFS	pfsCode
IT	10011	ITCsF2	1921102
NIST	10002	NIST-F1	1920201
NPL	10017	NPL-CsF1	1921701
OP	10008	SYRTE-FO1	1920801
OP	10008	SYRTE-FO2	1920802
OP	10008	SYRTE-FORb	1930803
PTB	10005	PTB-CsF1	1920503
SU	10038	SU-CsFO2	1923802

Note: The last two digits of pfsCode are the choice of each laboratory, and should not change. This table provides only an example.