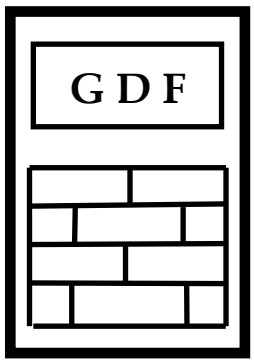
GDF DATA BANKS BULLETIN

HuPoTest – 50 years of research



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HuPoTest – simple Matlab software for time measurements

The main problem of HuPoTest is the time measurements with high and stable accuracy and saving of measured values in view to be further retrieved. The previous software created in Visual Basic 3.0 was proved to be less and less used because it works only on 32 bit Windows platforms.The latest versions of professional math softwares (Matlab, Maple and Mathematica) offer possibility to create elaborated softwares which can be further converted in a final form as a standalone software which can be used by any one on common Windows and other platforms without having installed basic math software. At first stage I have tried two months ago the offer of Matlab2017 as trial version. The software created in the editor page for measurements of 8 values of time is presented in Table 1 and it works also in older versions. Start and stop of timer for each value is obtained by pressing any key. Table 2 shows the results obtained for xj=5 seconds. After each measurement appears the "elapsed time" between start and stop and finally the matrix Y1 of all values, average (M) and standard deviation (S).All 4 series of 8 final values corresponding to xj = 5, 10, 15 and 20 seconds can be copied in an Excel worksheet and further in the Excel template for basic calculations as it was presented in previous notes [1]. It is also important to follow the instructions regarding the right conditions for correct measurements [1, 2].

Table 1.

```
tic                 toc                 pause               pause
t1=clock;           t6=clock;           tic                 toc
pause               y31=etime(t6,t5);   t11=clock;          t16=clock;
toc                 pause               pause               y81=etime(t16,t15);
t2=clock;           tic                 toc                 Y1=[y11
y11=etime(t2,t1);   t7=clock;           t12=clock;             y21
pause               pause               y61=etime(t12,t11);    y31
tic                 toc                 pause                  y41
t3=clock;           t8=clock;           tic                    y51
pause               y41=etime(t8,t7);   t13=clock;             y61
toc                 pause               pause                  y71
t4=clock;           tic                 toc                    y81];
y21=etime(t4,t3);   t9=clock;           t14=clock;          M=mean(Y1);
pause               pause               y71=etime(t14,t13); S=std(Y1);
tic                 toc                 pause               Y1
t5=clock;           t10=clock;          tic                 M
pause               y51=etime(t10,t9);  t15=clock;          S
```

Table 2.

```
Elapsed time is 5.212122 seconds.   Y1 =      M =
Elapsed time is 4.877051 seconds.      5.2100     5.0025
Elapsed time is 5.041609 seconds.      4.8770  S =
Elapsed time is 5.048268 seconds.      5.0420     0.1074
Elapsed time is 4.968232 seconds.      5.0480
Elapsed time is 5.040376 seconds.      4.9680
Elapsed time is 4.944184 seconds.      5.0400
Elapsed time is 4.891595 seconds.      4.9430
                                       4.8920
```

Unfortunately, I did not succeed to obtain the final standalone software, but I encourage all interested persons to try even by other above mentioned math softwares and as applications for tablets and smart phones by considering the HuPoTest flow chart [1].

[1] G.Dragan, HuPoTest – proper training and creation of simple database in view to evaluate mental improvement; HuPoTest – project for the complete software available for any individual user, GDF Databanks Bull., 21(7) 2017.
[2] G.Dragan, HuPoTest - 40 years of continuous research, GDF Databanks Bull., 11(1) 2007.

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HuPoTest – preliminary tests on PUT response reaction

Agedness is time intoxication

It is important to point out the figure of merit of procedure used for time measurements in HuPoTest. This mainly depends both of timer characteristics and triggering device in conditions of the same person under test (PUT) and a limited period of time for experiments ensuring conditions of repeatability.

I have four distinct measuring systems at this stage of development of HuPoTest as they are described in Table bellow and I planed to compare them by performing HuPoTest with me as PUT following the ticking sound for seconds of a precise quartz analog wall clock in the period of 10 to 24 August 2017 (15 days). Spiritual Coupling (SC, in 1/s^2 [1, 2]) parameter is considered to define the figure of merit of each type of HuPoTest measurement based on the initial protocol [1]. All HuPoTest measurements were performed on 8 individual values for each standard period of (5, 10, 15, 20) seconds. Statistics parameters are evaluated on 30 SC values for each measurement procedure. Measurements were performed alternatively 2-3 times every day for each procedure.

	Triggering device	Time accuracy	Timer/software	Statistics on SC values					
				Average	Stdev	Kurt	Skew	min	Max
A	Toggle switch	0.001 s	digital stopwatch [1]	1117	720	4.70	1.92	291	3569
B	Mouse	0.01 s	Visual Basic 3.0, 32 bit	513	274	-0.41	0.88	173	1072
C	Enter key	1 µs	Matlab R2010b [3]	899	888	6.87	2.54	199	4330
D	Push button	0.01 s	Sport digital stopwatch	620	463	2.32	1.58	155	1877

Kurt = kurtosis = peakedness of distribution: > 0 peak, < 0 flat;
Skew = asymmetry degree of distribution: > 0 asymmetric on over average; < 0 bellow average.

The final composite FOM

$$CFOM = (average*Kurt)/stdev, \text{ with the following results:} \quad (1)$$

$$A = 7.29 ; B = -0.77 ; C = 6.96 ; D = 3.11$$

Concluding remarks:

In fact, SC values and their statistics for each measurement procedure reveal in specific way both reaction characteristics of PUT by handling the triggering device and the characteristics of standard timer, so the following increasing order of CFOM results:

$$B < D < C < A \quad (2).$$

This increasing order also shows the decreasing order of influence of PUT reaction to handle the triggering device on the final mental features revealed by HuPoTest. It results that the timer resolution contributes to the CFOM, although apparently the PUT reaction time exceeds 0.01 s.

These results substantiate the procedure of classical procedure with digital stopwatch and toggle switch (A) intensively used on more than 1000 PUT for establishing the parameters of mental state.

Mouse allows important alteration of the measured times by delaying and/or anticipating the start and stop of measurements. This fact is amplified by low time resolution in procedure B.

However, in view to make HuPoTest as an efficient mental test and training procedure for individual and independent use, standalone software must be created with the help of professional math software allowing high time resolution according to the given flow chart [4].

References

[1] G. Dragan, Definition and assignment of some global uncertainties of measurements, The 9th International Metrology Congress, Bordeaux, France, 18-21 October 1999, p.353-356; HuPoTest - 40 years of continuous research, GDF Databanks Bull., 11(1) 2007.

[2] G.Dragan, HuPoTest – general procedure, assignments of results, specimen of complete test, order and obtain your complete HuPoTest report, GDF Databanks Bull., 11(2) 2007.

[3] G.Dragan, HuPoTest – simple Matlab software for time measurements, GDF Databanks Bull., 21(9) 2017.

[4] G.Dragan, HuPoTest – project for the complete software available for any individual user, GDF Databanks Bull., 21(7) 2017.

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Year	VOL	NO	Content (titles)	$*)
1997	1	1	Editorial: Databanks – the compulsory language. LOGKOW – a Databank of evaluated octanol-water partition coefficients (James Sangster). Solubility behavior introducing topoenergetic working principles. Comments on 1-octanol-water partition of several n-alkane related series.	F
1997	1	2	Guide of good practice in metrology (Romanian)	AFI
1998	2	1	Editorial: socio-psychological implications in creation and utilization of a databank (Ioan-Bradu Iamandescu); Behavior in vapor-liquid equilibria (VLE): I. Structural aspects; Behavior in vapor-liquid equilibria: II. Several structures in databanks; Symposium on VDC-4 held on 30 October 1997 at Lubrifin-SA, Brasov (Romania).	F
1998	2	2	Practical course of metrology (Romanian)	AFI
1998	2	3	DIFFUTOR-01: Thermally driven diffusion in pure metals	AFI
1998	2	4	VAPORSAT-01: Databanks of thermally driven VLE. The first 100 simple molecules	AFI
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1999	3	2	Discussions on Applied Metrology	AFI
2000	4	1	Editorial: Laboratory accreditation and inter-laboratory comparisons (Virgil Badescu) Doctoral Theses – important data banks. GDF intends to open new series of experiments on thermo-physical properties. Some comments on uncertainty: global budget and DFT analysis. Events: The 9th International Metrology Congress, Bordeaux, France, 18-21 October 1999.	F
2000	4	2	Measurement and Calibration.	AFI
2001	5	1	Editorial: Metrology ensures moral and technological progress. Topoenergetic aspects of amorphous-crystalline coupling. I. Composite behavior of water and aqueous solutions (paper presented at nanotubes and Nanostructures 2001, LNF, Frascati, Rome Italy, 17-27 October 2001). Events: Nanotubes and nanostructures 2000.School and workshop, 24 September – 4 October 2000, Cagliari, Italy.	F
2001	5	2	Editorial: Viscosity – a symptomatic problem of actual metrology. Visco-Dens Calorimeter: general features on density and viscosity measurements. New vision on the calibration of thermometers: ISOCALT® MOSATOR: Topoenergetic databanks on molten salts properties driven by temperature and composition.	F
2002	6	1	MOSATOR-01: Topoenergetic databanks for one component molten salts; thermally driven viscosity and electrical conductance.	AFI
2002	6	2	Editorial: HuPoTest - Operator calibration or temporal scale psychic test. MOSATOR: topoenergetic databanks of one component molten salts; thermally driven viscosity and electrical conductance.	F
2002	6	3	Editorial: Quo vadis Earth experiment? ISOCALT® : Report on metrological tests	F
2003	7	1	Editorial: Time – an instrument of the selfish thinking. 1st NOTE: Homoeopathy: upon some efficient physical tests revealing structural modifications of water and aqueous solutions. I. Mixing experiments.	F
2004	8	1	Metrological verification and calibration of thermometers using thermostats type ISOCALT® 21/70/2. Metrological verification and calibration of thermometers using thermostats type ISOCALT® 2.2R.	F
2004	8	2	Aspects of correct measurements of temperature. I. measurement of a fixed point according to ITS-90. Physics and Homoeopathy: some physical requirements for homoeopathic	F

			practice.(Plenary lecture at the 19th SRH National Congress, 21-22 September 2004, Bucharest, Romania)	
2005	9	1	AWARD for ISOCALT® at the International Fair TIB-2004, October 2004, Bucharest. ISOCALT® 3/70/21 was awarded in a selection of 20 products by a commission of experts from the Polytechnic University of Bucharest. Upon some aspects of temperature measurements. (12th International Metrology Congress, 20-23 June 2005, Lyon, France)	F
2005	9	2	A new technique for temperature measurement and calibration. National Society of Measurements (NSM). Important warning for T-calibrator users: MSA has chose metrology well calibrators from Fluke (Hart Scientific).	F
2005	9	3	Universal representation of Cancer Diseases. 1. First sight on NSW-2003 report. Universal representation of Cancer Diseases. 2. UK cancer registrations on 1999-2002. Vital Potential can estimate our predisposition for cancer diseases.	F
2006	10	1	NTC – thermistors -1	AFI
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2009	13	1	Proposal for interlaboratory comparisons. Calibration of NTC-thermistors (The 14th International Metrology Congress, Paris, France, 22-25 June 2009).	F
2009	13	2	Sudoku – un algoritm de rezolvare. (Sudoku – an algorithm for solution).	AFI
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2013	17	10	1. Procedure for defining standard liquids for viscosity based on topoenergetic principles. 2. Topological aspects of flow and deformation in polymer composites, The VIII-th International Congress on Rheology, 1-5 September 1980, Naples, Italy, pp. 375-376. 3. Universal representation of flow behavior based on topoenergetic principles, The IX-th International Congress on Rheology, 8-13 October 1984, Accapulco, Gro. Mexico, pp.369-376. 4. Comments on "Universal representation of flow behavior based on topoenergetic principles", The IX-th International Congress on Rheology, 8-13 October 1984, Accapulco, Gro. Mexico, pp. 369-376. 5. Open letter to BRML and INM.	F
2014	18	1	Adiabatic calorimeter as high accuracy T-calibrator	F
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2015	19	7	High resolution mixing calorimetry redivivus.IV. Specific heat of crystalline phase of water. WPA2015: International Congress of World Psychiatric Association,Primary care mental health: innovation and transdisciplinarity, Bucharest, 24-27 June 2015, ROMANIA	F
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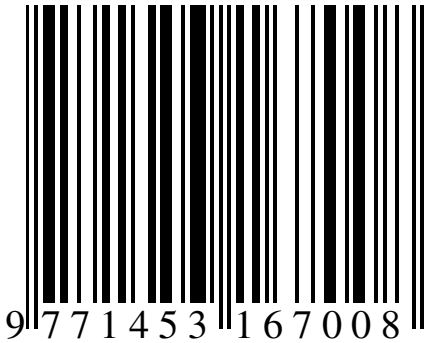

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