

HP15C Collector's Edition

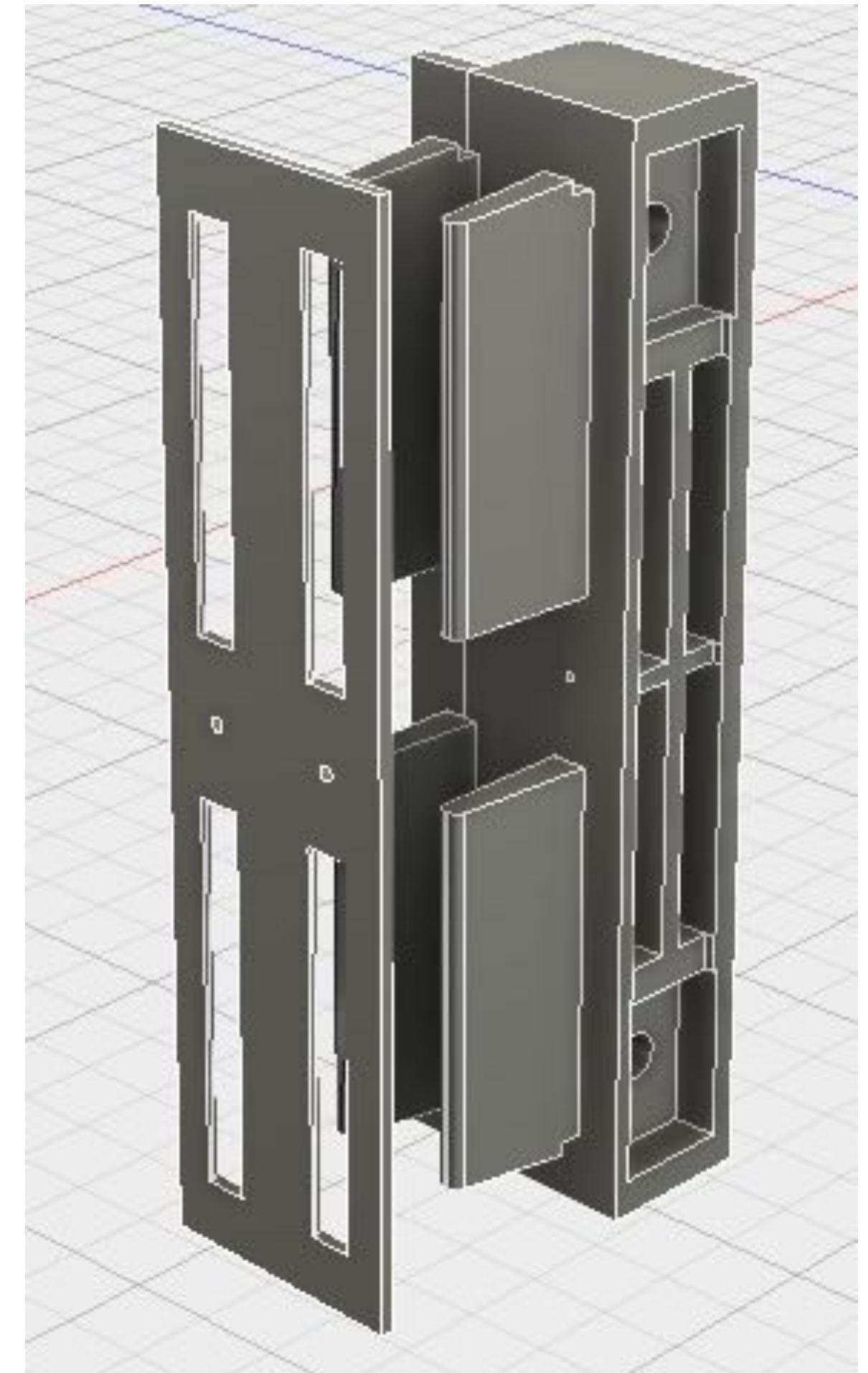
Current and Future developments

José González Divassón - The Calculator Store - HHC24

The Calculator Store

A HP calculator specialist

- Founded 2011 with the HP15c LE - www.thecalculatorstore.com
- Sells HP Calculators old and new - Moravia distributor
- Designs accessories (cases, overlays, cables) and parts for HP calculators (3D-printed with HP Multijet machines!)
- Calculator repairs (with the help of Ignacio Sánchez for Classics, Woodstocks and Spices)



An old classic, updated

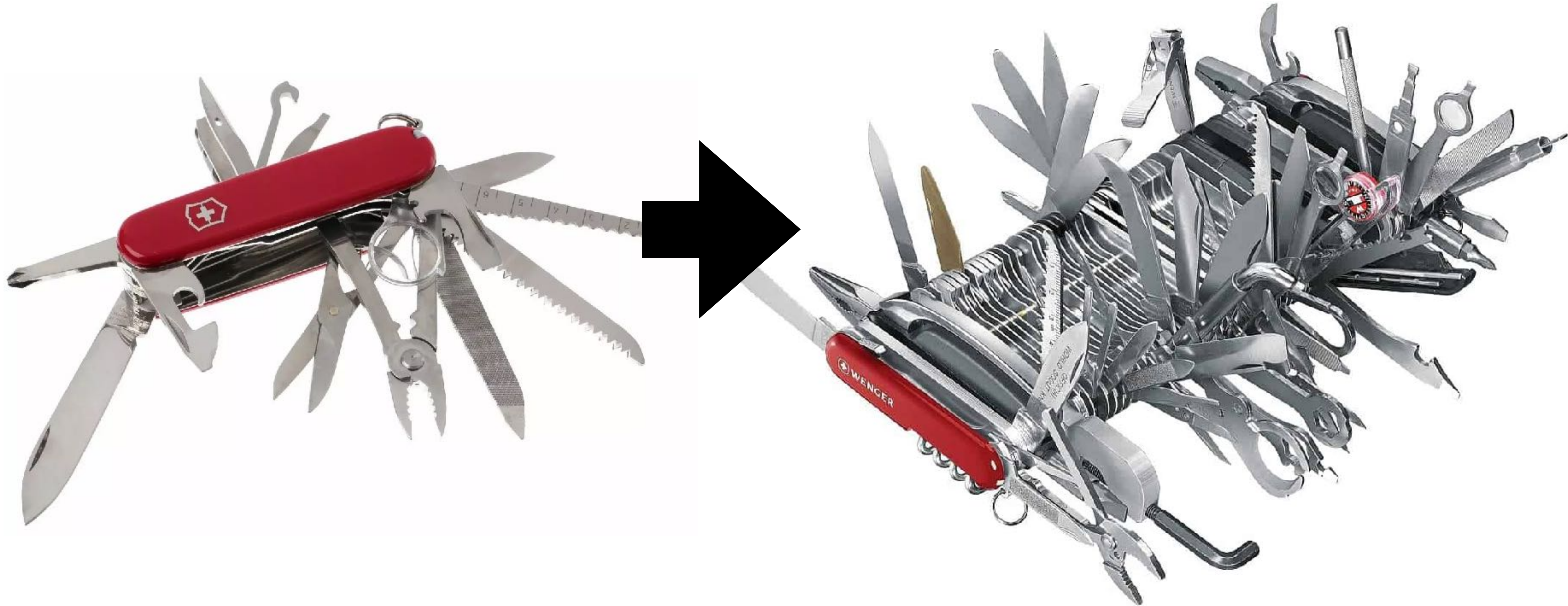
Cyrille de Brebisson took the opportunity to make some changes

- More memory: up to 196 registers instead of 65 using JF Garnier's mods, up to 1000 program steps
- Much longer battery life than LE (but not as long as the original)
- Three modes: safe (99 reg), "unleashed" (196 reg) and HP16c (NOMAS)
- Open to future enhancements through USB
- Several members of this honorable council involved



Enhancing the HP15C

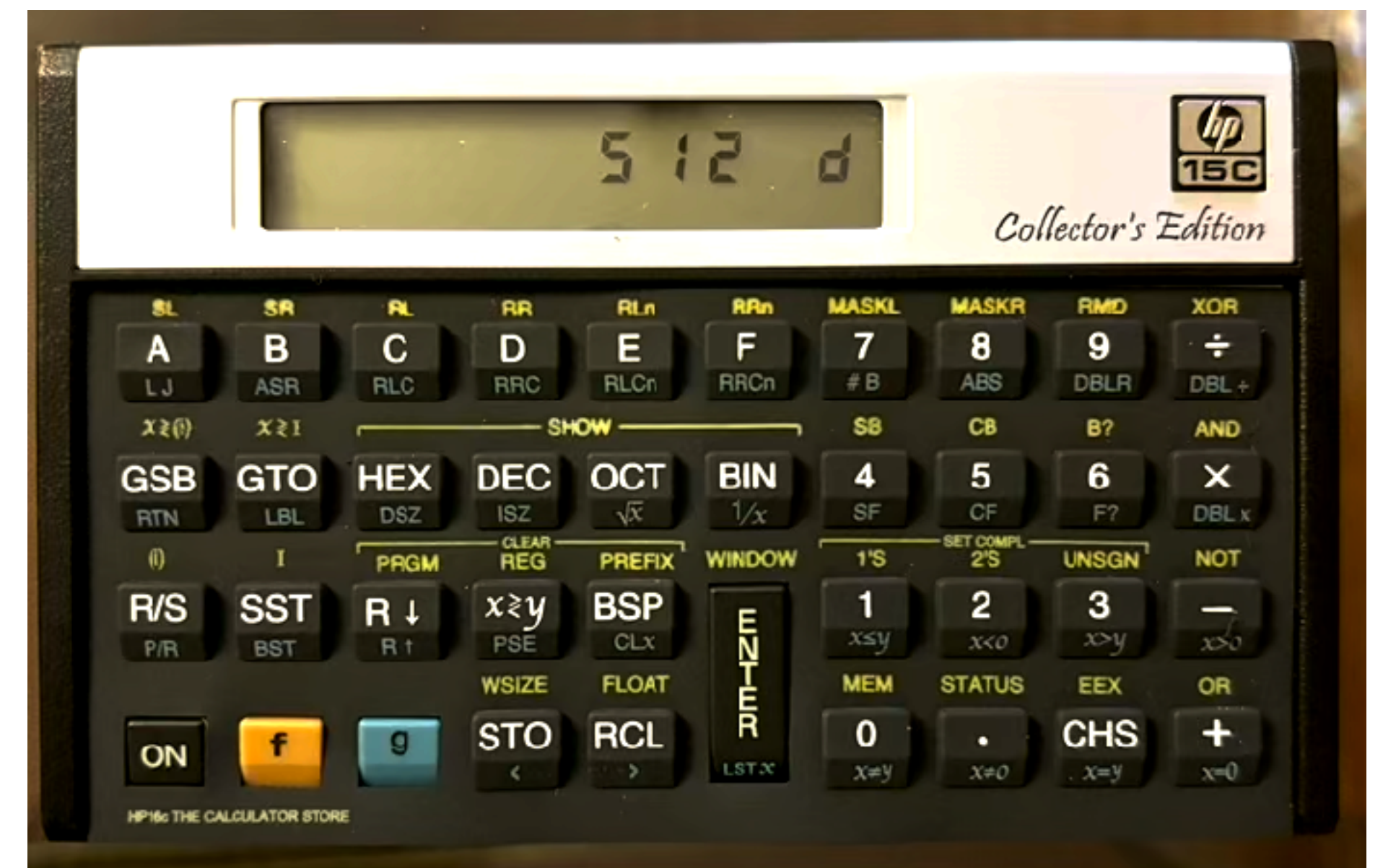
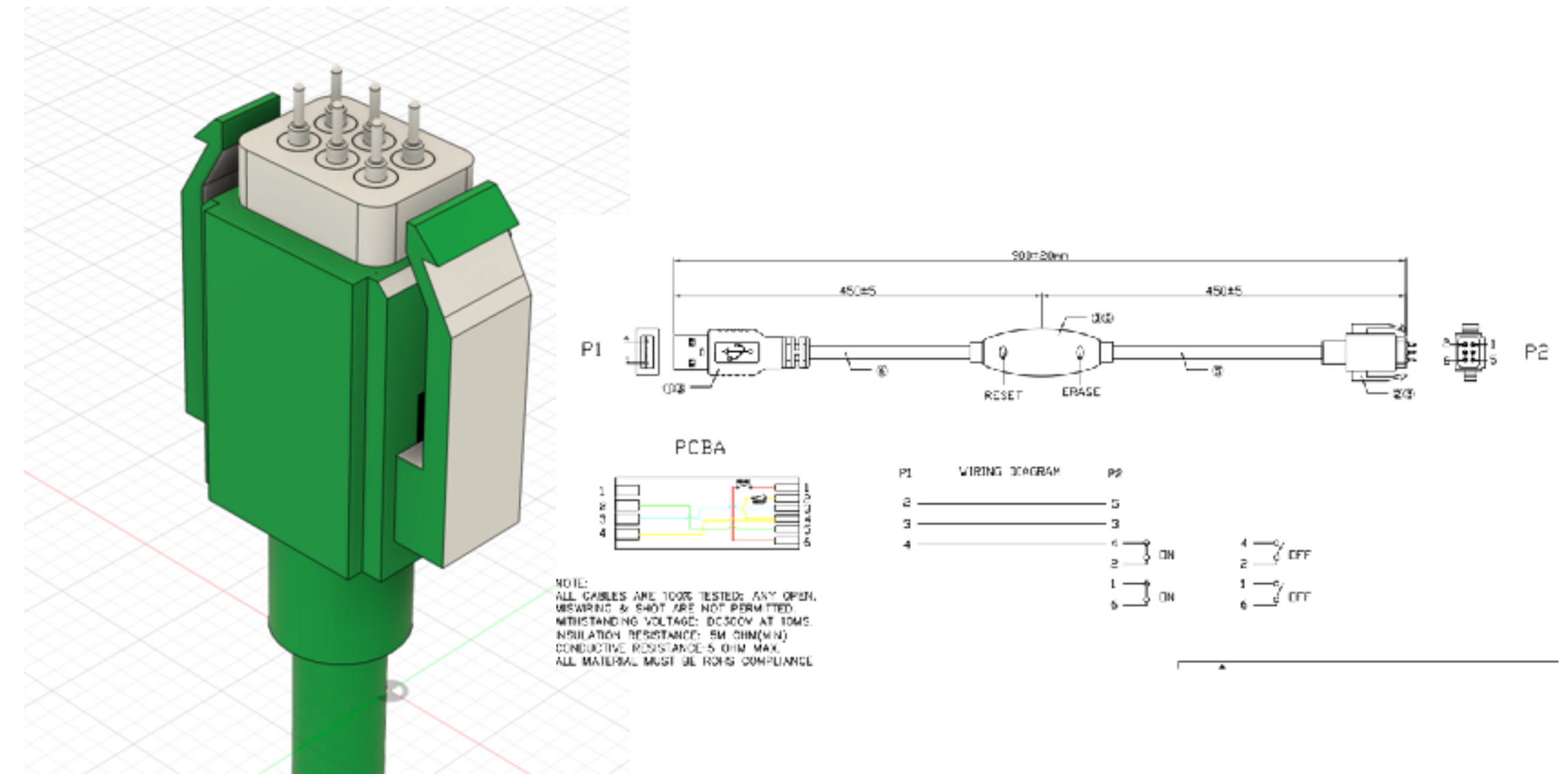
Adding features to an already “charged” calculator



The HP16C NOMAS

How to use it?

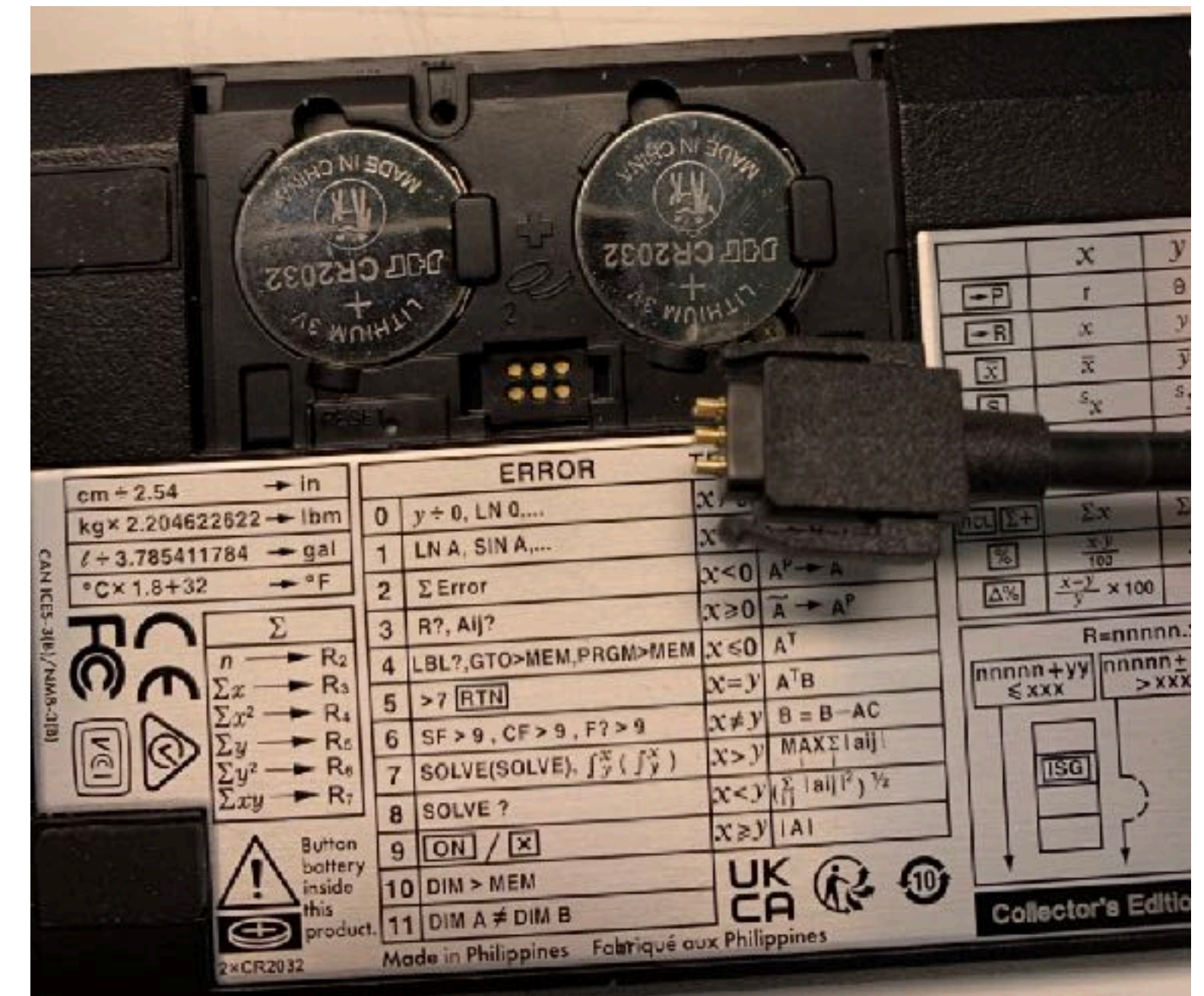
- Hampered by the nasty DEC bug
- JF Garnier provided a fix
- We designed a POGO cable to fix the firmware - there was nothing available off-the-shelf
- Different keyboard keyset
 - We designed a silicone overlay in three colors.



And now what?

Now, with cable, Cyrille programmed a simple I/O for the HP15c

- Simple interface protocol (USB HID mode): read and write the whole memory area.
- The simplest command-line Windows-only program: VoyagerSave
 - Back up and restore your own long programs and data
 - But also you can consider sharing program sets: the old “software pac” concept
 - Geoff Quickfall provided two pacs related to aviation
 - We put together some financial programs - Finance Pac !
 - We designed the overlays - similar to HP16c



Software pac overlays

Same 3-color silicone-based technique

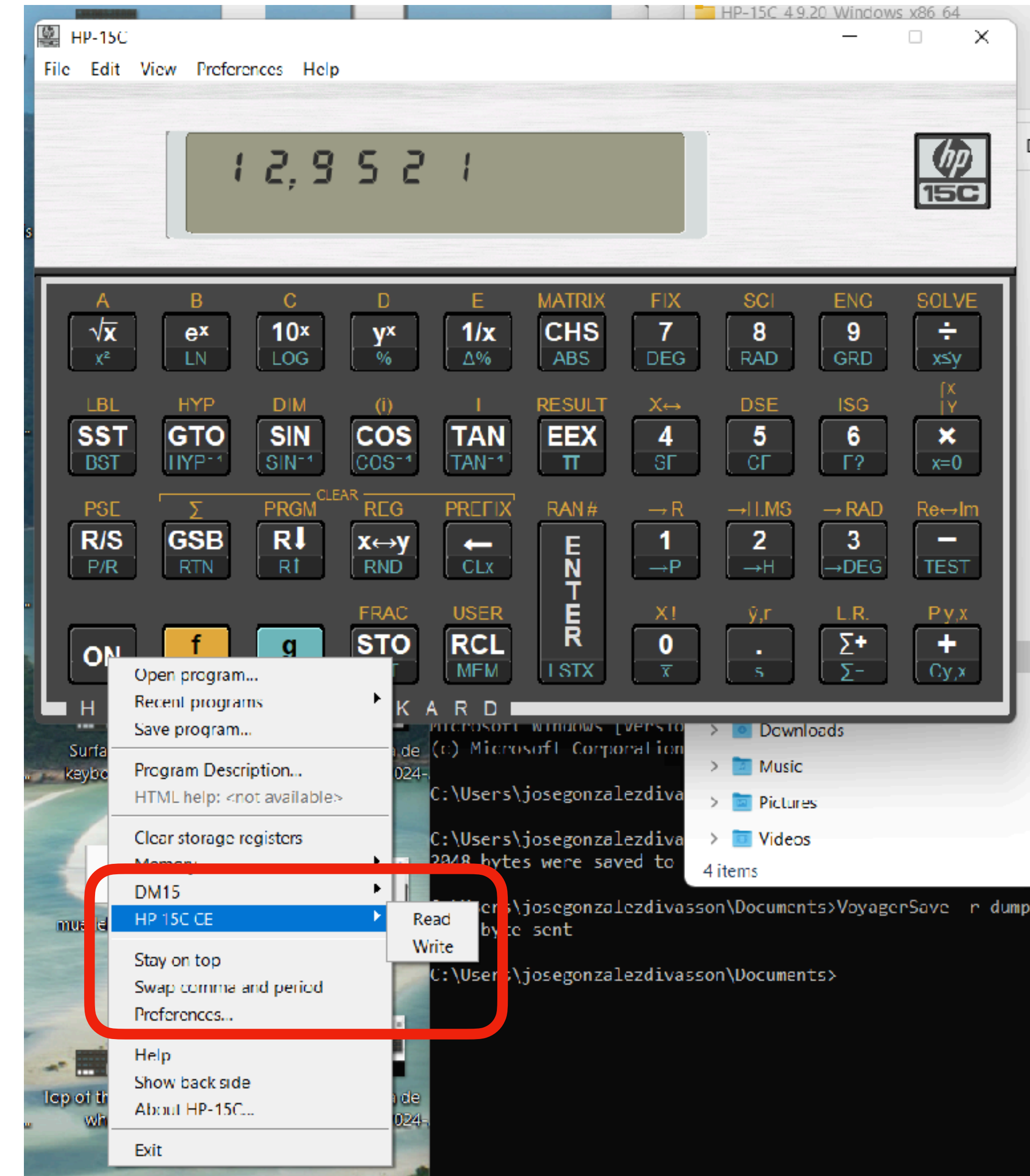
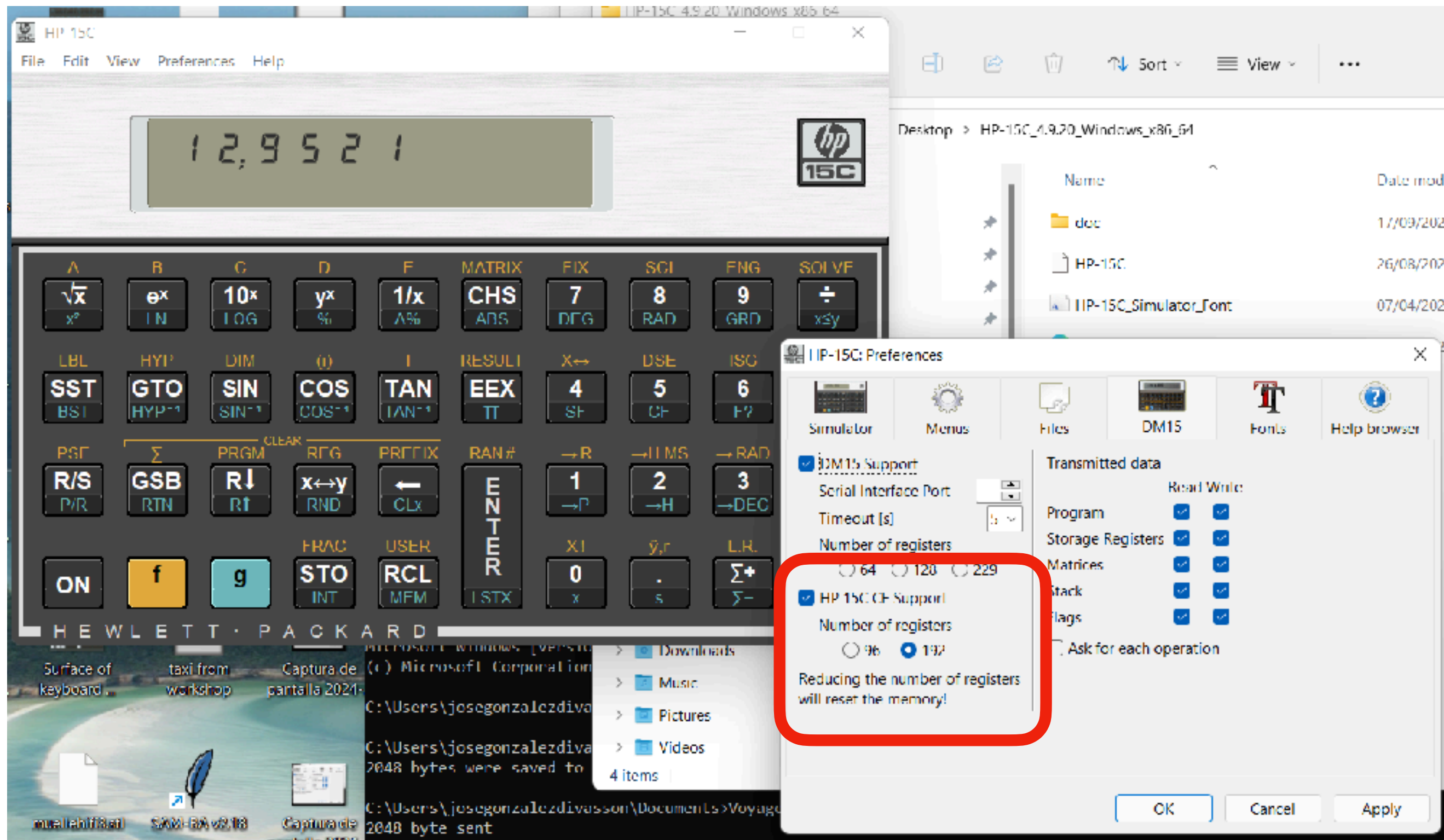
- Need at least 300 units: MOQ !!
- Same color code: yellow for keyboard plate, white on top (“GSB X”), blue on angle (“GSB .X”).
- You can come up with more pacs!



How to develop for HP15c?

Enter Torsten Manz's HP15c Simulator

- HP15c enabled version before year end
- Now read/write files - later direct connection
- Good for program documentation



HP15c Simulator

Documentation Examples

Program

Line	Display	Key Sequence	Line	Display	Key Sequence	Line	Display	Key Sequence
000			136	36	ENTER	272	1	1
001	422 1.7	f LBL 7	137	45 .9	RCL . 9	273	1	1
002	15	1/x	138	44 25	STO 1	274	9	9
003	43 14	g %	139	43 35	g CLx	275	30	-
004	15	1/x	140	422 1.2	f LBL . 2	276	4	4
005	43 32	g RTN	141	45.40.24	RCL + (I)	277	20	x
006	422 1.8	f LBL 8	142	20	x	278	1	1
007	36	ENTER	143	42.525	f DSE 1	279	30	-
008	36	ENTER	144	22 .2	GTO . 2	280	44 .2	STO . 2
009	45 .8	RCL . 8	145	45.40.0	RCL + 0	281	1	1
010	26	EEX	146	43 32	g RTN	282	4	4
011	2	2	147	422 1.0	f LBL 0	283	6	6
012	10	÷	148	45 7	RCL 7	284	0	0
013	1	1	149	45.10.5	RCL ÷ 5	285	9	9
014	40	+	150	45 5	RCL 5	286	7	7
015	10	÷	151	34	x↔y	287	10	÷
016	30	-	152	43 32	g RTN	288	43 44	g INT
017	43 36	g LSTX	153	422 1.8	f LBL . 8	289	44 .4	STO . 4
018	43 32	g RTN	154	45 .8	RCL . 8	290	1	1
019	422 1.11	f LBL A	155	43 14	g %	291	4	4
020	44 1	STO 1	156	40	+	292	6	6
021	3 1	R/S	157	43 36	g LSTX	293	0	0
022	32 1	GSB 1	158	34	x↔y	294	9	9
023	43 36	g LSTX	159	43 32	g RTN	295	7	7

.4 used by Julian days routines

.5 used by Julian days routines

1 Used as counter in NPV

10/9/24, 12:52

Finance Pac

Description

Programs require at least 19 registers and occupy 40; launched by clicking on the function key (A to F) or G5

Time Value of Money: function keys A to F. Take

Weighted average: enter pairs of numbers with Renders sum of volumes in Y and weighted ave

MM.DDYYYY to Julian Day number. Taken from Nick

Julian Day number to MM.DDYYYY - Own dev

- Sales tax. Introduce sales tax % in reg .8; gets development

+ Sales tax. Introduce sales tax % in reg .8; get development

DDAYS: difference between days in format MM. Basis] from Nick. Uses MM.DDYYYY to Julian D

DATE+: date in Y in format MM.DDYYYY, increa Gregorian to Julian and Julian to Gregorian

Day of Week : enter date in MM.DDYYYY in X, Gregorian to Julian subroutine

NPV: Up to 18 years + initial flow. Enter number discount % in X; returns NPV in X. Own develop

IRR: same registers as above; use f SOLVE .1 (

Program Resources

Labels

Name	Description
A	n
B	i
C	PV
D	PMT
E	FV
0	Weighted average
1	Used by TVM
2	Used by TVM

Storage Registers

Name	Description
0	CF0 in NPV
1	CF1 in NPV - n in TVM
2	CF2 in NPV - i in TVM
3	CF3 in NPV - PV in TVM
4	CF4 in NPV - PMT in TVM
5	CF5 in NPV - FV in TVM
6	CF6 in NPV

Flags

Number	Description
0	Used by TVM - CF for payments at end of period
1	Used by SOLVE routine in TVM program

Pending: document span of validity of Gregorian date to Julian day number and Julian day number to Gregorian date.

10% off

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www.thecalculatorstore.com**