

C47 Named flags

Flag	Type	Default	Fullname	Extended description
1024 ⁿ	Flag	CLEAR	Binary prefixes	SET for binary prefixes in UNIT display mode ; CLEAR for decimal prefixes in UNIT display mode (Info : Binary prefixes designate powers of 1024 applicable to long integers and reals in UNIT display mode)
ALPHA	Flag	CLEAR	Alpha Input Mode	SET for alpha input mode ; CLEAR for alpha input mode inactive
ALP.IN	Flag	CLEAR	Alpha Entry	SET for alpha entry ; CLEAR for alpha entry inactive
ASLIFT	Flag (system)	SET	Automatic Stack Lift	SET for automatic stack lift ; CLEAR for automatic stack lift inactive (Info : SBI is SIM only)
AUTOFF	Flag	SET	Automatic shutdown	SET for automatic shutdown ; CLEAR for automatic shutdown inactive (Info : Automatic shutdown delay is 10 m)
AUTXEQ	Flag	CLEAR	Auto execute program	SET for auto execute program ; CLEAR for auto execute program inactive (Info : Automatically starts program when calculator turns on)
BASE _{HP}	Flag	SET	Classic (HP) style base	SET for the whole stack to use number base ; CLEAR for only X to use number base (Info : Shortint values only)
CARRY	Flag	CLEAR	Carry (bit)	SET for carry (bit) ; CLEAR for carry (bit) inactive (Info : SBI depends on SBoc)
CONV _{HP}	Flag	SET	Classic (HP) conversions	SET for <from> \leftrightarrow <to> unit conversion buttons ; CLEAR for <to> \rightarrow \leftarrow <from> unit conversion buttons
CPX _j	Flag	CLEAR	Complex <i>j</i>	SET for <i>j</i> to display as the imaginary number ; CLEAR for <i>i</i> to display as the imaginary number (Info : <i>i</i> or <i>j</i> displayed in stack and on soft buttons)
CPXmul	Flag	CLEAR	Complex multiplier	SET for complex multiplier to display ; CLEAR for complex multiplier not to display (Info : If clear, trailing <i>i</i> or <i>j</i> is used ; complex multiplier is set by MULT \times)
CPXRES	Flag	SET	Complex results	SET for complex results ; CLEAR for real results only (Info : SBI depends on SBcr ; CPXRES is auto-set when entering complex input)
dREAL	Flag	CLEAR	Display longint as real	SET for displaying long integers as real ; CLEAR for not displaying long integers as real (Info : dREAL and LRG_LI cannot be active at the same time ; Prefix : Z:)
DENANY	Flag	CLEAR	Denominator any	SET for any denominator in fraction display mode ; CLEAR for fixed denominator in fraction display mode (Info : SBI depends on SBfrac ; DENANY and DENFIX are linked (both cannot be active) ; DENANY goes up to D.MAX (set by DMX))
DENFIX	Flag	CLEAR	Denominator fixed	SET for fixed denominator in fraction display mode ; CLEAR for any denominator in fraction display mode (Info : SBI depends on SBfrac ; DENFIX and DENANY are linked (both cannot be active))
DMY	Flag (system)	CLEAR	Day.month.year	Set for DD.MM.YYYY display mode ; CLEAR for DD.MM.YYYY display mode inactive (Format : DD.MM.YYYY)
ENDPMT	Flag (system)	SET	TVM end payments	SET for TVM end payments ; CLEAR for TVM begin payments (Info : SBI depends on SBtvm)
ENGOVR	Flag	CLEAR	Engineering/Scientific large reals	SET for displaying large reals in engineering notation ; CLEAR for displaying large reals in scientific notation

Flag	Type	Default	Fullname	Extended description
eRPN	Flag	SET	Entry RPN mode	SET for Entry RPN mode active ; CLEAR for Entry RPN mode inactive (Info : SBI depends on SBss ; If eRPN is set, the X-register is not duplicated on entry ; if clear, stack size SBI is displayed inverted as [8] or [4])
FRACT	Flag	CLEAR	Rational fractions mode	SET for rational fractions mode ; CLEAR for rational fractions mode inactive (Info : SBI depends on SBfrac ; /n or /max denotes maximum denominator (set by DMX) ; prefixes "<" and ">" may be shown as needed for rational fractions ; also see flag IRFRAC)
FRCSRN	Flag	CLEAR	Fraction show register name	SET for displaying register name in rational fractions mode ; CLEAR for not displaying register name in rational fractions mode (Prefix : x, y, z, t < or = or > or ≈)
FRCYC	Flag	CLEAR	Fraction mode full cycle	SET for full cycle on key a^b/c ($g[\Sigma+]$) ; CLEAR for limited cycle on key a^b/c ($g[\Sigma+]$) (Info : When FRCYC is SET full cycle is available, when CLEAR, flag PROPF is excluded (used as is) and OFF state is included in cycle)
GROW	Flag	CLEAR	Grow (matrix edit)	SET for grow (matrix edit) ; CLEAR for wrap (matrix edit) (Info : SBI depends on SBmx)
IGN1ER	Flag	CLEAR	Ignore one error	SET for calculator ignoring next error ; CLEAR for calculator not ignoring error(s) (Info : IGN1ER is cleared subsequently)
INTING	Flag (system)	CLEAR	Integrator running	SET for integrator running ; CLEAR for integrator not running
IRFON	Flag	CLEAR	Irrational fractions mode active	SET for irrational fractions mode active ; CLEAR for Irrational fractions mode inactive (Info : IRFON can be set or cleared to override automatic setting (e.g. by setting FRACT or .d) ; flag is SET when setting IRFRAC is switched ON)
IRFRAC	Flag	CLEAR	Irrational fractions mode (prefer	SET for irrational fractions mode (preference) ; CLEAR for irrational fractions mode (preference) inactive (Info : SBI depends on SBfrac ; SBI ×I indicates that approximate multiples or fractions are used, of the irrational numbers $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, $\sqrt{7}$, φ , π , $\sqrt{\pi}$, $1/\pi$, e and $1/e$ (with tolerance 10^{-24}) ; Prefix "≈" + <approximation> ; multiplication symbol according to flag MULT×)
KEY.LP	Flag	SET	Long keypress	SET for long keypress options for <none> ; CLEAR for no long keypress options for <none> (Info : For R47 fg layout only)
LEAD.0	Flag	CLEAR	Leading zeros	SET for leading zeros (shortint bases 2, 4, 8, 16) ; CLEAR for no leading zeros (shortint bases 2, 4, 8, 16)
LOWBAT	Flag (system)	CLEAR	Low Battery	SET for low battery voltage ; CLEAR for no low battery voltage
LRG_LI	Flag	SET	Longint large display	SET for long integers to always display in large text ; CLEAR for large long integers to display in small text (Info : LRG_LI and dREAL cannot be ON at the same time)
MDY	Flag (system)	CLEAR	Month/day/year	SET for MM/DD/YYYY display mode ; CLEAR for MM/DD/YYYY display mode inactive (Format : MM/DD/YYYY)
MONIT	Flag	SET	Iteration monitoring	SET for displaying iteration status ; CLEAR for not displaying iteration status (Info : Pertains to executing programmable sums, solvers and integrator)
MULT×	Flag	SET	Multiplication symbol	SET for displaying multiplication symbol × ; CLEAR for displaying multiplication symbol · (Info : Multiplication symbol is used in exponential and complex notation ; symbol may be displayed in annunciator(s) related to FRACT settings)
NUM	Flag (system)	CLEAR	Numlock	SET for numlock ; CLEAR for numlock inactive

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NUM.IN	Flag	CLEAR	Numeric entry	SET for numeric entry ; CLEAR for numeric entry inactive
OVERFL	Flag	CLEAR	Overflow	SET for overflow ; CLEAR for no overflow (Info : SBI depends on SBoc)
PFX.All	Flag	CLEAR	Show all prefixes	Show all SI unit prefixes in UNIT (prefix) display mode: 10^{-30} to 10^{30} ; if OFF, the range is 10^{-15} to 10^{15}
PLbox	Flag	SET	Box markers	SET for box markers ; CLEAR for box markers inactive (Info : If PLbox is ON, PLCros and PLplus are OFF)
PLcros	Flag	CLEAR	Cross markers	SET for cross markers ; CLEAR for cross markers inactive (Info : If PLCros is ON, PLbox and PLplus are OFF)
PLcxp	Flag	CLEAR	Complex plot	SET for complex plot ; CLEAR for complex plot inactive
PLline	Flag	SET	Draw line	SET for connecting graph points using line segments ; CLEAR for not connecting graph points using line segments
PLnvec	Flag	CLEAR	Clockwise vectors	SET for clockwise vectors ; CLEAR for clockwise vectors inactive (Info : Treat coordinate pairs as navigation vectors, clockwise from the positive y-axis as reference)
PLplus	Flag	CLEAR	Plus markers	SET for plus markers ; CLEAR for plus markers inactive (Info : If PLplus is ON, PLbox and PLCros are OFF)
PLvec	Flag	CLEAR	Anti-clockwise vectors	SET for anti-clockwise vectors ; CLEAR for anti-clockwise vectors inactive (Info : Treat coordinate pairs as vectors, anti-clockwise from the positive x-axis as reference)
PLxy:1	Flag	CLEAR	Forcing autoscale	SET for forcing autoscale on x- and y-axis to be the same ; CLEAR for not forcing autoscale on x- and y-axis to be the same
PLx.ax	Flag	CLEAR	Autoscaling to show x-axis	SET for autoscaling to show x-axis ; CLEAR for not autoscaling to show x-axis
PLy.ax	Flag	CLEAR	Autoscaling to show y-axis	SET for autoscaling to show y-axis ; CLEAR for not autoscaling to show y-axis
POLAR	Flag	CLEAR	Polar	SET for polar notation ; CLEAR for rectangular notation (Info : SBI depends on SBcpx)
PRINTS	Flag (system)	CLEAR	Printing	SET for printing ; CLEAR for not printing (Info : SBI depends on SBprn)
PROPFR	Flag	SET	Proper fractions	SET for proper fractions ; CLEAR for improper fractions
PRTACT	Flag	CLEAR	Printer Active	SET for printer enabled ; CLEAR for printer disabled
QUIET	Flag	CLEAR	Quiet	SET for beeper disabled ; CLEAR for beeper enabled
RP _{HP}	Flag	SET	Classic (HP) Rect/Polar	SET for X=x, Y=y (RECT), X=r, Y=θ (POLAR) ; CLEAR for X=y, Y=x (RECT), X=θ, Y=x (POLAR) (Info : RP _{HP} CLEAR conforms to the way the C47 deals with complex numbers)
RUNIO	Flag (system)	CLEAR	Serial I/O	SET for serial I/O ; CLEAR for no serial I/O (Info : SBI depends on SBser)
RUNTIM	Flag (system)	CLEAR	Stopwatch running	SET for stopwatch running ; CLEAR for stopwatch not running (Info : SBI depends on SBclk ; SBI not implemented yet)
SBang	Flag	CLEAR	Show angular mode symbol	SET for displaying angular mode symbol (∠) in status bar ; CLEAR for not displaying angular mode symbol
SBbatV	Flag	CLEAR	Show battery capacity	SET for displaying battery capacity (🔋) in status bar ; CLEAR for not displaying battery capacity (Info : Battery symbol length is proportional to 2.054 V to 3.045 V (replacing the standard LOWBAT icon))
SBclk	Flag	SET	Show stopwatch running	SET for displaying stopwatch running (⌚) in status bar ; CLEAR for not displaying stopwatch running

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SBcpx	Flag	SET	Show complex mode	SET for displaying complex mode (L ; ⊙) in status bar ; CLEAR for not displaying complex mode
SBcr	Flag	CLEAR	Show complex result	SET for displaying complex result (C ; R) in status bar ; CLEAR for not displaying complex result
SBdate	Flag	SET	Show date	SET for displaying date (YYYY-MM-DD) in status bar ; CLEAR for not displaying date
SBfrac	Flag	SET	Show fraction and base mode	SET for displaying fraction and base mode (a^b/n ; b/n ; $a^b/c \times I$; $b/c \times I$; #BASE ; #KEY _{A-P}) in status bar ; CLEAR for not displaying fraction and base mode
SBint	Flag	SET	Show integer mode	SET for displaying integer mode (w:n) in status bar ; CLEAR for not displaying integer mode
SBmx	Flag	CLEAR	Show matrix mode	SET for displaying matrix mode (wrap ; grow) in status bar ; CLEAR for not displaying matrix mode
SBoc	Flag	SET	Show overflow/carry mode	SET for displaying overflow/carry mode (° ; c) in status bar ; CLEAR for not displaying overflow/carry mode
SBprn	Flag	SET	Show printer	SET for displaying printer (🖨) in status bar ; CLEAR for not displaying printer
SBser	Flag	SET	Show serial I/O	SET for displaying serial I/O (🔌) in status bar ; CLEAR for not displaying serial I/O
SBshfR	Flag	CLEAR	Show shift on the right	SET for displaying shift (f ; Ⓜ) on the right in status bar ; CLEAR for not displaying shift on the right
SBss	Flag	CLEAR	Show stack size	SET for displaying stack size (8 ; 4) in status bar ; CLEAR for not displaying stack size
SBtime	Flag	CLEAR	Show time	SET for displaying time (HH:MMam/pm) in status bar ; CLEAR for not displaying time
SBtvm	Flag	SET	Show TVM mode	SET for displaying TVM mode (END ; BEG) in status bar ; CLEAR for not displaying TVM mode
SLOW	Flag	CLEAR	Slow mode	SET for slow mode ; CLEAR for slow mode inactive (Info : Slow mode limits battery drain)
SOLVING	Flag (system)	CLEAR	Solving	SET for solver running ; CLEAR for solver not running
SPCRES	Flag	SET	Special results	SET for special results ; CLEAR for special results inactive (Info : Special results are: infinity (∞) and not-a-number (NaN), an error will not occur for such events when SPCRES is SET)
SSIZE8	Flag	SET	Stack Size 8	SET for 8 register stack ; CLEAR for 4 register stack (Info : SBI depends on SBss)
TDM24	Flag	SET	Time display 24h	SET for 24h time display ; CLEAR for 12h time display (Format : HH:MMam/pm ; HH24:MM)
TRACE	Flag	CLEAR	Tracing	SET for printing in trace mode ; CLEAR for printing in normal mode
USB	Flag (system)	CLEAR	USB Power	SET for calculator running on USB power ; CLEAR for calculator running on battery power