

HP49G Message Table

Total message number: 1504

The following conventions have been used compiling the list below:

- Trailing spaces and carriage returns are always indicated in **red**.
- Messages 2305+2316 (#901+#90C) have been word-wrapped; anyway "real" carriage returns are clearly indicated.

Number	Message
1 #00001h	Insufficient Memory
2 #00002h	Directory Recursion
3 #00003h	Undefined Local Name
4 #00004h	Undefined XLIB Name
5 #00005h	Memory Clear
6 #00006h	Power Lost
7 #00007h	Warning:
8 #00008h	Invalid Card Data
9 #00009h	Object In Use
10 #0000Ah	Port Not Available
11 #0000Bh	No Room in Port
12 #0000Ch	Object Not in Port
13 #0000Dh	Recovering Memory
14 #0000Eh	Try To Recover Memory?
15 #0000Fh	Replace RAM, Press ON
16 #00010h	No Mem To Config All
17 #00011h	Undefined FPTR Name
18 #00012h	Invalid Bank Data
19 #00013h	Full Check Bad Crc
20 #00014h	Cmprs: not a user bank
21 #00015h	No or 2 system bank
22 #00016h	Invalid bank
23 #00017h	Invalid bank number
24 #00018h	Inexisting pack
25 #00019h	Pack twice
26 #0001Ah	Ins. Mem. ␣
27 #0001Bh	Erase Fail, Rom faulty
28 #0001Ch	Erase Fail, Low bats
29 #0001Dh	Erase Fail, Locked Block
30 #0001Eh	Write Adr outside ROM
31 #0001Fh	Write Fail, Rom Faulty
32 #00020h	Write Fail, Low bats
33 #00021h	Write Fail, Locked Block
257 #00101h	No Room to Save Stack
258 #00102h	Can't Edit Null Char.
259 #00103h	Invalid User Function
260 #00104h	No Current Equation
262 #00106h	Invalid Syntax
263 #00107h	Real Number
264 #00108h	Complex Number
265 #00109h	String
266 #0010Ah	Real Array
267 #0010Bh	Complex Array
268 #0010Ch	List
269 #0010Dh	Global Name
270 #0010Eh	Local Name
271 #0010Fh	Program
272 #00110h	Algebraic

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273 #00111h	Binary Integer
274 #00112h	Graphic
275 #00113h	Tagged
276 #00114h	Unit
277 #00115h	XLIB Name
278 #00116h	Directory
279 #00117h	Library
280 #00118h	Backup
281 #00119h	Function
282 #0011Ah	Command
283 #0011Bh	System Binary
284 #0011Ch	Long Real
285 #0011Dh	Long Complex
286 #0011Eh	Linked Array
287 #0011Fh	Character
288 #00120h	Code
289 #00121h	Library Data
290 #00122h	External
292 #00124h	LAST STACK Disabled
293 #00125h	LAST CMD Disabled
294 #00126h	HALT Not Allowed
295 #00127h	Array
296 #00128h	Wrong Argument Count
297 #00129h	Circular Reference
298 #0012Ah	Directory Not Allowed
299 #0012Bh	Non-Empty Directory
300 #0012Ch	Invalid Definition
301 #0012Dh	Missing Library
302 #0012Eh	Invalid PPAR
303 #0012Fh	Non-Real Result
304 #00130h	Unable to Isolate
305 #00131h	No Room to Show Stack
306 #00132h	Warning: ⚠
307 #00133h	Error:
308 #00134h	Purge?
309 #00135h	Out of Memory
310 #00136h	Stack
311 #00137h	Last Stack
312 #00138h	Last Commands
313 #00139h	Key Assignments
314 #0013Ah	Alarms
315 #0013Bh	Last Arguments
316 #0013Ch	Name Conflict
317 #0013Dh	Command Line
319 #0013Fh	Interrupted
320 #00140h	Integer
321 #00141h	Symbolic Matrix
322 #00142h	Font
323 #00143h	Aplet
324 #00144h	Extended Real
325 #00145h	Extended Complex
326 #00146h	FlashPtr
327 #00147h	Extended Ptr
328 #00148h	MiniFont
329 #00149h	Extended 1
330 #0014Ah	Extended 2

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331 #0014Bh	Extended 3
332 #0014Ch	YES
333 #0014Dh	NO
334 #0014Eh	TRUE
335 #0014Fh	FALSE
336 #00150h	Are you sure?
337 #00151h	Low Memory Condition Please Wait...
338 #00152h	CATALOG
339 #00153h	Nonexistent Find Pattern
340 #00154h	Not Found
341 #00155h	Nonexistent Replace Pattern
342 #00156h	Can't Find Selection
343 #00157h	Y= not available
344 #00158h	Warning: Changes will not be saved
345 #00159h	Result not editable in EQW
513 #00201h	Too Few Arguments
514 #00202h	Bad Argument Type
515 #00203h	Bad Argument Value
516 #00204h	Undefined Name
517 #00205h	LASTARG Disabled
518 #00206h	Incomplete Subexpression
519 #00207h	Implicit () off
520 #00208h	Implicit () on
769 #00301h	Positive Underflow
770 #00302h	Negative Underflow
771 #00303h	Overflow
772 #00304h	Undefined Result
773 #00305h	Infinite Result
1281 #00501h	Invalid Dimension
1282 #00502h	Invalid Array Element
1283 #00503h	Deleting Row
1284 #00504h	Deleting Column
1285 #00505h	Inserting Row
1286 #00506h	Inserting Column
1537 #00601h	Invalid Σ Data
1538 #00602h	Nonexistent Σ DAT
1539 #00603h	Insufficient Σ Data
1540 #00604h	Invalid Σ PAR
1541 #00605h	Invalid Σ Data LN(Neg)
1542 #00606h	Invalid Σ Data LN(0)
1543 #00607h	Invalid EQ
1544 #00608h	Current equation:
1545 #00609h	No current equation.
1546 #0060Ah	Enter eqn, press NEW
1547 #0060Bh	Name the equation, press ENTER
1548 #0060Ch	Select plot type
1549 #0060Dh	Empty catalog
1550 #0060Eh	undefined
1551 #0060Fh	No stat data to plot
1552 #00610h	Autoscaling
1553 #00611h	Solving for
1554 #00612h	No current data. Enter
1555 #00613h	data point, press Σ +

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1556 #00614h	Select a model
1557 #00615h	No alarms pending.
1558 #00616h	Press ALRM to create
1559 #00617h	Next alarm:
1560 #00618h	Past due alarm:
1561 #00619h	Acknowledged
1562 #0061Ah	Enter alarm, press SET
1563 #0061Bh	Select repeat interval
1564 #0061Ch	____ I/O setup menu
1565 #0061Dh	Plot type: _
1566 #0061Eh	""
1567 #0061Fh	_(OFF SCREEN)
1568 #00620h	Invalid PTYPE
1569 #00621h	Name the stat data, ↵ press ENTER
1570 #00622h	Enter value (zoom out ↵ if >1), press ENTER
1571 #00623h	Copied to stack
1572 #00624h	x axis zoom w/AUTO. ↵
1573 #00625h	x axis zoom. ↵
1574 #00626h	y axis zoom. ↵
1575 #00627h	x and y axis zoom. ↵
1576 #00628h	IR/wire: _____
1577 #00629h	ASCII/binary: _
1578 #0062Ah	baud: _____
1579 #0062Bh	parity: _____
1580 #0062Ch	checksum type: _
1581 #0062Dh	translate code:
1582 #0062Eh	Enter matrix, then NEW
1583 #0062Fh	No Associated Numeric View
1793 #00701h	Algebraic
1794 #00702h	RPN
1795 #00703h	Standard
1796 #00704h	Std
1797 #00705h	Fixed
1798 #00706h	Fix
1799 #00707h	Scientific
1800 #00708h	Sci
1801 #00709h	Engineering
1802 #0070Ah	Eng
1803 #0070Bh	Degrees
1804 #0070Ch	Radians
1805 #0070Dh	Grads
1806 #0070Eh	Rectangular
1807 #0070Fh	Polar
1808 #00710h	Spherical
1809 #00711h	Operating Mode...
1810 #00712h	Number Format.....
1811 #00713h	Angle Measure.....
1812 #00714h	Coord System.....
1813 #00715h	FM,
1814 #00716h	Beep
1815 #00717h	Key Click

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1816 #00718h	Last Stack
1817 #00719h	Choose calculator operating mode
1818 #0071Ah	Choose number display format
1819 #0071Bh	Choose decimal places to display
1820 #0071Ch	Choose angle measure
1821 #0071Dh	Choose coordinate system
1822 #0071Eh	Use comma as fraction mark?
1823 #0071Fh	Enable standard beep?
1824 #00720h	Enable key click?
1825 #00721h	Save last stk for UNDO and ANS?
1826 #00722h	CALCULATOR MODES
1827 #00723h	Font:
1828 #00724h	Stack:
1829 #00725h	Small
1830 #00726h	Textbook
1831 #00727h	Edit:
1832 #00728h	Small
1833 #00729h	Full Page
1834 #0072Ah	Indent
1835 #0072Bh	EQW:
1836 #0072Ch	Small
1837 #0072Dh	Small Stack Disp
1838 #0072Eh	Header:
1839 #0072Fh	Clock
1840 #00730h	Analog
1841 #00731h	Choose system font
1842 #00732h	Display stack using small font?
1843 #00733h	Use pretty print in the stack?
1844 #00734h	Edit using small font?
1845 #00735h	Edit in full page?
1846 #00736h	Automatically indent new lines?
1847 #00737h	Edit in EQW using small font?
1848 #00738h	Display EQW using small font?
1849 #00739h	Choose header height
1850 #0073Ah	Display ticking clock?
1851 #0073Bh	Analog clock?
1852 #0073Ch	DISPLAY MODES
1853 #0073Dh	Indep var:
1854 #0073Eh	Modulo:
1855 #0073Fh	Verbose
1856 #00740h	Step/Step
1857 #00741h	Complex
1858 #00742h	Approx
1859 #00743h	Incr Pow
1860 #00744h	Simp Non-Rational
1861 #00745h	Rigorous
1862 #00746h	Numeric
1863 #00747h	Enter independent variable name
1864 #00748h	Enter modulo value
1865 #00749h	Display calculus information?
1866 #0074Ah	Perform operations step by step?
1867 #0074Bh	Allow complex numbers?
1868 #0074Ch	Perform approx calculations?
1869 #0074Dh	Increasing polynomial ordering?
1870 #0074Eh	Simplify non rational expr?
1871 #0074Fh	Don't simplify X to X?
1872 #00750h	Replace constants by values?

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1873 #00751h	CAS MODES
1874 #00752h	Goto row:
1875 #00753h	Goto column:
1876 #00754h	Specify a row to go to
1877 #00755h	Specify a column to go to
1878 #00756h	Matrix Writer
1879 #00757h	Bad range value
1880 #00758h	Start:
1881 #00759h	Step:
1882 #0075Ah	Type:
1883 #0075Bh	Zoom:
1884 #0075Ch	Small Font
1885 #0075Dh	File:
1886 #0075Eh	Enter starting value
1887 #0075Fh	Enter increment value
1888 #00760h	Choose table format
1889 #00761h	Enter zoom factor
1890 #00762h	Display table using small font?
1891 #00763h	Enter a filename to save data
1892 #00764h	TABLE SETUP
1893 #00765h	Automatic
1894 #00766h	Build Your Own
1895 #00767h	Function
1896 #00768h	Polar
1897 #00769h	Parametric
1898 #0076Ah	Diff Eq
1899 #0076Bh	Conic
1900 #0076Ch	Truth
1901 #0076Dh	Histogram
1902 #0076Eh	Bar
1903 #0076Fh	Scatter
1904 #00770h	Slopefield
1905 #00771h	Fast3D
1906 #00772h	Wireframe
1907 #00773h	Ps-Contour
1908 #00774h	Y-Slice
1909 #00775h	Gridmap
1910 #00776h	Pr-Surface
1911 #00777h	Deg
1912 #00778h	Rad
1913 #00779h	Grad
1914 #0077Ah	Type:
1915 #0077Bh	Δ:
1916 #0077Ch	EQ:
1917 #0077Dh	Indep:
1918 #0077Eh	Connect
1919 #0077Fh	Simult
1920 #00780h	H-Tick:
1921 #00781h	V-Tick:
1922 #00782h	Pixels
1923 #00783h	Depnd:
1924 #00784h	Save Animation
1925 #00785h	ΣDAT:
1926 #00786h	Col:
1927 #00787h	Cols:
1928 #00788h	F:
1929 #00789h	H-Var:

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1930 #0078Ah	V-Var:
1931 #0078Bh	Stiff
1932 #0078Ch	$\partial F \partial Y$:
1933 #0078Dh	$\partial F \partial T$:
1934 #0078Eh	Choose type of plot
1935 #0078Fh	Choose angle measure
1936 #00790h	Enter function(s) to plot
1937 #00791h	Enter independent variable name
1938 #00792h	Connect plot points?
1939 #00793h	Plot functions simultaneously?
1940 #00794h	Enter horizontal tick spacing
1941 #00795h	Enter vertical tick spacing
1942 #00796h	Tick spacing units are pixels?
1943 #00797h	Enter dependent variable name
1944 #00798h	Save slices animation?
1945 #00799h	Enter data to plot
1946 #0079Ah	Enter col to use for horizontal
1947 #0079Bh	Enter col to use for vertical
1948 #0079Ch	Enter horizontal variable
1949 #0079Dh	Enter vertical variable
1950 #0079Eh	Use stiff diff eq solver?
1951 #0079Fh	Enter derivative w.r.t. soln
1952 #007A0h	Enter derivative w.r.t. indep
1953 #007A1h	PLOT SETUP
1954 #007A2h	H-View:
1955 #007A3h	V-View:
1956 #007A4h	Indep Low:
1957 #007A5h	High:
1958 #007A6h	Step:
1959 #007A7h	Pixels
1960 #007A8h	Depnd Low:
1961 #007A9h	High:
1962 #007AAh	X-Left:
1963 #007ABh	X-Right:
1964 #007ACh	Y-Near:
1965 #007ADh	Y-Far:
1966 #007AEh	Step Indep:
1967 #007AFh	Depnd:
1968 #007B0h	Bar Width:
1969 #007B1h	Z-Low:
1970 #007B2h	Z-High:
1971 #007B3h	XE:
1972 #007B4h	YE:
1973 #007B5h	ZE:
1974 #007B6h	Init:
1975 #007B7h	Final:
1976 #007B8h	Init-Soln:
1977 #007B9h	Tol:
1978 #007BAh	XXLeft:
1979 #007BBh	XXRight:
1980 #007BCh	YYNear:
1981 #007BDh	YYFar:
1982 #007BEh	Enter minimum horizontal value
1983 #007BFh	Enter maximum horizontal value
1984 #007C0h	Enter minimum vertical value
1985 #007C1h	Enter maximum vertical value
1986 #007C2h	Enter minimum indep var value

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1987 #007C3h	Enter maximum indep var value
1988 #007C4h	Enter indep var increment
1989 #007C5h	Indep step units are pixels?
1990 #007C6h	Enter minimum depend var value
1991 #007C7h	Enter maximum depend var value
1992 #007C8h	Enter bar width
1993 #007C9h	Enter minimum Z view-volume val
1994 #007CAh	Enter maximum Z view-volume val
1995 #007CBh	Enter X eyepoint coordinate
1996 #007CCh	Enter Y eyepoint coordinate
1997 #007CDh	Enter Z eyepoint coordinate
1998 #007CEh	Enter absolute error tolerance
1999 #007CFh	Enter minimum XX range value
2000 #007D0h	Enter maximum XX range value
2001 #007D1h	Enter minimum YY range value
2002 #007D2h	Enter maximum YY range value
2003 #007D3h	PLOT WINDOW
2004 #007D4h	Default
2005 #007D5h	FUNCTION
2006 #007D6h	POLAR
2007 #007D7h	PARAMETRIC
2008 #007D8h	DIFF EQ
2009 #007D9h	CONIC
2010 #007DAh	TRUTH
2011 #007DBh	HISTOGRAM
2012 #007DCh	BAR
2013 #007DDh	SCATTER
2014 #007DEh	SLOPEFIELD
2015 #007DFh	FAST3D
2016 #007E0h	WIREFRAME
2017 #007E1h	PS-CONTOUR
2018 #007E2h	Y-SLICE
2019 #007E3h	GRIDMAP
2020 #007E4h	PR-SURFACE
2021 #007E5h	PLOT WINDOW -
2022 #007E6h	Enter minimum X view-volume val
2023 #007E7h	Enter maximum X view-volume val
2024 #007E8h	Enter minimum Y view-volume val
2025 #007E9h	Enter maximum Y view-volume val
2026 #007EAh	Enter indep var sample count
2027 #007EBh	Enter depnd var sample count
2028 #007ECh	Goto Level:
2029 #007EDh	Specify a level to go to
2030 #007EEh	HISTORY
2049 #00801h	Must be ≥ 0
2050 #00802h	Must be bewteen 0 and 1
2051 #00803h	μ_0 :
2052 #00804h	\bar{x} :
2053 #00805h	N:
2054 #00806h	α :
2055 #00807h	σ :
2056 #00808h	Null hypothesis population mean
2057 #00809h	Sample mean
2058 #0080Ah	Sample Size
2059 #0080Bh	Significance level
2060 #0080Ch	Population standard deviation
2061 #0080Dh	Z-TEST: 1 μ , KNOWN σ

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2062 #0080Eh	Alternative Hypothesis
2063 #0080Fh	$\bar{x}1$:
2064 #00810h	$\sigma 1$:
2065 #00811h	N1:
2066 #00812h	α :
2067 #00813h	$\bar{x}2$:
2068 #00814h	$\sigma 2$:
2069 #00815h	N2:
2070 #00816h	Sample mean for population 1
2071 #00817h	Std deviation for population 1
2072 #00818h	Sample size for population 1
2073 #00819h	Significance level
2074 #0081Ah	Sample mean for population 2
2075 #0081Bh	Std deviation for population 2
2076 #0081Ch	Sample size for population 2
2077 #0081Dh	Z-TEST: 2 μ , KNOWN α
2078 #0081Eh	$\pi 0$:
2079 #0081Fh	x:
2080 #00820h	N:
2081 #00821h	α :
2082 #00822h	Null hyp. population proportion
2083 #00823h	Success count
2084 #00824h	Sample size
2085 #00825h	Significance level
2086 #00826h	Z-TEST: 1 P
2087 #00827h	X1:
2088 #00828h	N1:
2089 #00829h	α :
2090 #0082Ah	X2:
2091 #0082Bh	N2:
2092 #0082Ch	Success count for sample 1
2093 #0082Dh	Size of sample 1
2094 #0082Eh	Significance level
2095 #0082Fh	Success count for sample 2
2096 #00830h	Size of sample 2
2097 #00831h	Z-TEST: 2 P
2098 #00832h	\bar{x} :
2099 #00833h	Sx:
2100 #00834h	$\mu 0$:
2101 #00835h	α :
2102 #00836h	N:
2103 #00837h	Null hypothesis population mean
2104 #00838h	Sample Standard deviation
2105 #00839h	Sample Mean
2106 #0083Ah	Significance level
2107 #0083Bh	Sample size
2108 #0083Ch	T-TEST: 1 μ , UNKNOWN σ
2109 #0083Dh	$\bar{x}1$:
2110 #0083Eh	S1:
2111 #0083Fh	N1:
2112 #00840h	α :
2113 #00841h	$\bar{x}2$:
2114 #00842h	S2:
2115 #00843h	N2:
2116 #00844h	Pooled?
2117 #00845h	Sample mean for population 1
2118 #00846h	Std deviation for sample 1

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2119 #00847h	Sample size for population 1
2120 #00848h	Significance level
2121 #00849h	Sample mean for population2
2122 #0084Ah	Std deviation for sample 2
2123 #0084Bh	Sample size for population 2
2124 #0084Ch	Pooled if checked
2125 #0084Dh	T-TEST: 2 μ , UNKNOWN σ
2126 #0084Eh	\bar{x} :
2127 #0084Fh	σ :
2128 #00850h	N:
2129 #00851h	C:
2130 #00852h	Sample mean
2131 #00853h	Population standard deviation
2132 #00854h	Sample size
2133 #00855h	Confidence level
2134 #00856h	CONF. INT.: 1 μ , KNOWN σ
2135 #00857h	$\bar{x}1$:
2136 #00858h	$\sigma1$:
2137 #00859h	N1:
2138 #0085Ah	C:
2139 #0085Bh	$\bar{x}2$:
2140 #0085Ch	$\sigma2$:
2141 #0085Dh	N2:
2142 #0085Eh	Sample mean for population 1
2143 #0085Fh	Std deviation for sample 1
2144 #00860h	Size of sample 1
2145 #00861h	Sample mean for population 2
2146 #00862h	Std deviation for sample 2
2147 #00863h	Size of sample 2
2148 #00864h	Confidence level
2149 #00865h	CONF. INT.: 2 μ , KNOWN σ
2150 #00866h	x:
2151 #00867h	N:
2152 #00868h	C:
2153 #00869h	Sample success count
2154 #0086Ah	Sample size
2155 #0086Bh	Confidence level
2156 #0086Ch	CONF. INT.: 1 P
2157 #0086Dh	$\bar{x}1$:
2158 #0086Eh	N1:
2159 #0086Fh	C:
2160 #00870h	$\bar{x}2$:
2161 #00871h	N2:
2162 #00872h	Sample 1 success count
2163 #00873h	Sample 1 size
2164 #00874h	Sample 2 success count
2165 #00875h	Sample 2 size
2166 #00876h	Confidence level
2167 #00877h	CONF. INT.: 2 P
2168 #00878h	\bar{x} :
2169 #00879h	Sx:
2170 #0087Ah	N:
2171 #0087Bh	C:
2172 #0087Ch	Sample mean
2173 #0087Dh	Sample standard deviation
2174 #0087Eh	Sample size
2175 #0087Fh	Confidence level

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2176 #00880h CONF. INT.: 1 μ , UNKNOWN σ

2177 #00881h $\bar{x}1$:

2178 #00882h S1:

2179 #00883h N1:

2180 #00884h C:

2181 #00885h $\bar{x}2$:

2182 #00886h S2:

2183 #00887h N2:

2184 #00888h Pooled

2185 #00889h Sample 1 mean

2186 #0088Ah Std deviation for sample 1

2187 #0088Bh Sample 1 size

2188 #0088Ch Sample 2 mean

2189 #0088Dh Std deviation for sample 2

2190 #0088Eh Sample 2 size

2191 #0088Fh Confidence level

2192 #00890h Pooled if checked

2193 #00891h CONF. INT.: 2 μ , UNKNOWN σ

2194 #00892h Search for:

2195 #00893h Replace by:

2196 #00894h Case Sensitive

2197 #00895h Search For:

2198 #00896h Enter search pattern

2199 #00897h Enter replace pattern

2200 #00898h Case sensitive search?

2201 #00899h Enter search pattern

2202 #0089Ah FIND REPLACE

2203 #0089Bh FIND

2204 #0089Ch Goto Line:

2205 #0089Dh Specify a line to go to

2206 #0089Eh GOTO LINE

2207 #0089Fh Goto Position:

2208 #008A0h Specify a position to go to

2209 #008A1h GOTO POSITION

2210 #008A2h H-Factor:

2211 #008A3h V-Factor:

2212 #008A4h Recenter on cursor

2213 #008A5h Enter horizontal zoom factor

2214 #008A6h Enter vertical zoom factor

2215 #008A7h Recenter plot on cursor?

2216 #008A8h ZOOM FACTOR

2217 #008A9h Object:

2218 #008AAh Name:

2219 #008ABh Directory

2220 #008ACh Enter New Object

2221 #008ADh Enter variable name

2222 #008AEh Create a new directory?

2223 #008AFh NEW VARIABLE

2224 #008B0h Select Object

2305 #00901h Tests the null hypothesis that the population mean is a given value, $H_0: \mu = \mu_0$, against an alternative hypothesis. \downarrow

\downarrow

Example data \downarrow

A set of 50 random numbers from 0 to 1, generated by a calculator, has a mean of 0.461368. The population should have: $\mu = 0.5$

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and $\sigma = 0.2887$.

↓

Calculation

Assume that the standard deviation of the population is 0.2887. Test the null hypothesis, $H_0: \mu = 0.5$ against the alternative hypothesis that the mean is less than 0.5, $H_1: \mu < 0.5$. Test at the 5% level.

↓

Results

$p > 0.05$. Accept H_0 , There is insufficient evidence that the calculator is not functioning properly.

2306 #00902h Tests the null hypothesis that the population means are equal, $H_0: \mu_1 = \mu_2$, against an alternative hypothesis. The population standard deviation must be known.

↓

Example data

A set of 50 random numbers from 0 to 1, generated by one calculator, has a mean of 0.461368. A second calculator generates a set of 50 numbers, with a mean of 0.522851. The populations should have $\mu = 0.5$ and $\sigma = 0.2887$. Test that these samples indicate that the calculators are operating differently.

↓

Calculation

Test the null hypothesis, $H_0: \mu_1 = \mu_2$, against the alternative hypothesis that the means are different, $H_1: \mu_1 \neq \mu_2$. Test at the 5% level.

↓

Results

Since $p > 0.05$, accept the null hypothesis. Too little evidence to suspect that the calculators are operating differently.

2307 #00903h Tests the null hypothesis that the proportion of successes in the population is a given value, $H_0: \pi = p_0$, against an alternative hypothesis.

↓

Example data

A set of 50 random numbers between 0 and 1, generated by a calculator. 21 of the numbers are less than 0.5. The population should have $\pi = 0.5$.

↓

Calculation

Test the alternative hypotheses $H_1: \pi < 0.5$ against the null hypothesis $H_0: \pi = 0.5$ at the 5% level.

↓

Result

The test returns a Z-value of -1.1313..., with a probability of 0.1289.... Since this probability is greater than $\alpha = 0.05$, accept the null hypothesis. Evidence is not strong enough to suspect the random number generator is faulty.

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2308 #00904h Tests the null hypothesis that the proportions of success in two populations are equal, $H_0: \pi_1 = \pi_2$, against an alternative hypothesis.

↓

Example data

A set of 50 random numbers, between 0 and 1, generated by one calculator. 21 of the numbers are less than 0.5. A second set of 50 random numbers generated by another calculator. 26 of them are less than 0.5.

↓

Calculation

Test the alternative hypotheses $H_1: \pi_1 < \pi_2$ against the null hypothesis $H_0: \pi_1 = \pi_2$ at the 5% level.

↓

Result

The test returns a Z-value of -1.0018..., with a probability of 0.1582.... Since this probability is greater than $\alpha = 0.05$, accept the null hypothesis. Evidence is not strong enough to suspect that the two calculators are functioning differently.

2309 #00905h Used when the population standard deviation is not known. Tests the null hypothesis that the population mean is a given value, $H_0: \mu = \mu_0$, against an alternative hypothesis.

↓

Example data

A set of 50 random numbers, between 0 to 1, is generated by a calculator. The sample mean is 0.461368 and the sample standard deviation is 0.2776. Ideally, the mean of the population should be 0.5. Is this sample evidence that the calculator is producing random numbers that are too small?

↓

Calculation

Use a t-test to test the null hypothesis that the mean is 0.5, $H_0: \mu = 0.5$, against the alternative hypothesis that the mean is less than 0.5, $H_1: \mu < 0.5$. Test at the 5% level.

↓

Results

Since $p > 0.05$, we accept the null hypothesis. Insufficient evidence to suspect the calculator of improper functioning.

2310 #00906h Used when the population standard deviation is not known. Tests the null hypothesis that the population means are equal, $H_0: \mu_1 = \mu_2$, against an alternative hypothesis.

↓

Example data


A set of 50 random numbers from 0 to 1, generated by one calculator, has a mean of 0.461368 and a sample standard deviation of 0.2776. A set of 50 random numbers generated by a second calculator has a mean of 0.522851

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and a sample standard deviation of 0.2943. 




Calculation 

Use a t-test to test the null hypothesis that the means are equal, $H_0: \mu_1 = \mu_2$, against the alternative hypothesis that the means are different, $H_1: \mu_1 \neq \mu_2$. Test at the 5% level. 




Results 


Since $p > 0.05$, accept the null hypothesis
Insufficient evidence to suspect the calculators of behaving differently.


2311 #00907h Uses Normal distribution to calculate a confidence interval for μ , the true mean of a population, when the true standard deviation, σ is known. 



Example data 

A set of 50 random numbers between 0 to 1, generated by a calculator. 

Sample mean $\bar{x} = 0.461368$. 


The population should have: 

$\mu = 0.5$ 

$\sigma = 0.2887$ 




Calculation 

Calculate a 99% true mean confidence interval from the data. The confidence interval should contain 0.5 if the random number generator is true. 




Results 

The calculated confidence interval is [0.3562, 0.5665]. The probability is .99 that the population mean is in this interval.


2312 #00908h Uses Normal distribution to calculate a confidence interval for the difference in the means of two populations, when the standard deviations are known. 




Example data 


Two sets of 50 random numbers between 0 to 1, each generated by a different calculator. 



Calculator 1 sample mean 

$\bar{x}_1 = 0.461368$ 

Calculator 2 sample mean 

$\bar{x}_2 = 0.522851$ 



Each population should have: 

$\mu = 0.5$ 


$\sigma = 0.2887$ 



Calculation 

Calculate a 99% confidence interval for the difference in the means of two populations. The


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confidence interval should contain 0 if the random number generators are operating properly. 




Results 

The calculated confidence interval is [-.2102, 0.0872]. The probability is .99 that the difference between the population means is in this interval.


2313 #00909h Uses the Normal distribution to calculate a confidence interval for π , the true proportion of successes in a population, based on the number of successes, X , in a sample of size n . 



Example data 


A set of 50 random numbers, between 0 and 1, generated by a calculator. 21 of the numbers are less than 0.5. 



The population should have $\pi = 0.5$. 




Calculation 

Calculate a 99% confidence interval for the true proportion of numbers less than 0.5 produced by this generator. Interval should contain 0.5 if the generator is true. 




Results 

The calculated confidence interval is [0.2402, 0.6000]. The probability is .99 that the true proportion of numbers less than .5 is in this interval.

2314 #0090Ah Uses the Normal distribution to calculate a confidence interval for $\pi_1 - \pi_2$, the difference of the true proportion of successes in two populations. Calculation is based on the number of successes, X_1 , in a sample of size n_1 from the first population, and the number of successes, X_2 , in a sample of size n_2 from the second population. 




Example data 

A set of 50 random numbers, between 0 and 1, generated by one calculator. 21 of the numbers are less than 0.5. A second set of 50 random numbers generated by another calculator. 26 numbers are less than 0.5. 



Calculation 

Calculate a 99% confidence interval for the difference of the true proportions of numbers less than 0.5 produced. The interval should contain 0 if there is no significant difference between the calculators. 



Results 

The calculated confidence interval is [-.3558, .1558]. The probability is .99 that the difference between the proportions of success of the two

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populations is in this interval.

2315 #0090Bh

Uses the Student's t-distribution to calculate a confidence interval for the true mean of a population, when the true population standard deviation, is unknown. The calculation is based on the sample mean and sample standard deviation.

Example data

A set of 50 random numbers from 0 to 1,

generated by a calculator. The sample mean is 0.461368 and the sample standard deviation is 0.2776.

Calculation

Calculate a 99% confidence interval for the true

mean of population of random numbers generated. If the calculator is operating properly, this interval should contain 0.5.

Results

The calculated confidence interval is [0.3562,

0.5666]. The probability is .99 that the population mean is in this interval.

2316 #0090Ch

Uses the Student's t-distribution to calculate a confidence interval for the difference in the means of two populations when standard deviations are unknown. The calculation is based on the sample means and the sample standard deviations.

Example data

A set of 50 random numbers from 0 to 1,

generated by one calculator, has a mean of 0.461368 and a sample standard deviation of 0.2776. A set of 50 random numbers generated by a second calculator has a mean of 0.522851 and a sample standard deviation of 0.2943.

Calculation

Calculate a 99% confidence interval for the true

difference in the means of the populations of random numbers generated by these two calculators.

Results

The calculated confidence interval is [-0.2118,

0.0888]. The probability is .99 that the difference between the population means is in this interval.

2317 #0090Dh

Inconclusive result

2561 #00A01h

Bad Guess(es)

2562 #00A02h

Constant?

2563 #00A03h

Interrupted

2564 #00A04h

Zero

2565 #00A05h

Sign Reversal

2566 #00A06h

Extremum

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2567 #00A07h	Left
2568 #00A08h	Right
2569 #00A09h	Expr
2817 #00B01h	Invalid Unit
2818 #00B02h	Inconsistent Units
3073 #00C01h	Bad Packet Block Check
3074 #00C02h	Timeout
3075 #00C03h	Receive Error
3076 #00C04h	Receive Buffer Overrun
3077 #00C05h	Parity Error
3078 #00C06h	Transfer Failed
3079 #00C07h	Protocol Error
3080 #00C08h	Invalid Server Cmd.
3081 #00C09h	Port Closed
3082 #00C0Ah	Connecting
3083 #00C0Bh	Retry #
3084 #00C0Ch	Awaiting Server Cmd.
3085 #00C0Dh	Sending_
3086 #00C0Eh	Receiving_
3087 #00C0Fh	Object Discarded
3088 #00C10h	Packet #
3089 #00C11h	Processing Command
3090 #00C12h	Invalid IOPAR
3091 #00C13h	Invalid PRTPAR
3092 #00C14h	Low Battery
3093 #00C15h	Empty Stack
3094 #00C16h	Row_
3095 #00C17h	Invalid Name
3329 #00D01h	Invalid Date
3330 #00D02h	Invalid Time
3331 #00D03h	Invalid Repeat
3332 #00D04h	Nonexistent Alarm
47361 #0B901h	Press [CONT] for menu
47362 #0B902h	reset/delete this field
47363 #0B903h	Reset value
47364 #0B904h	Delete value
47365 #0B905h	Reset all
47366 #0B906h	Valid object types:
47367 #0B907h	Valid object type:
47368 #0B908h	Any object
47369 #0B909h	Real number
47370 #0B90Ah	(Complex num)
47371 #0B90Bh	String
47372 #0B90Ch	[Real array]
47373 #0B90Dh	[(Cmpl array)]
47374 #0B90Eh	{ List }
47375 #0B90Fh	Name
47376 #0B910h	« Program »
47377 #0B911h	'Algebraic'
47378 #0B912h	# Binary int
47379 #0B913h	_Unit object
47380 #0B914h	Invalid object type
47381 #0B915h	Invalid object value
47382 #0B916h	Calculator Modes
47383 #0B917h	Number Format:
47384 #0B918h	Angle Measure:
47385 #0B919h	Coord System:

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47386 #0B91Ah	Beep
47387 #0B91Bh	Clock
47388 #0B91Ch	FM,
47389 #0B91Dh	Choose number display format
47390 #0B91Eh	Enter decimal places to display
47391 #0B91Fh	Choose angle measure
47392 #0B920h	Choose coordinate system
47393 #0B921h	Enable standard beep?
47394 #0B922h	Display ticking clock?
47395 #0B923h	Use comma as fraction mark?
47396 #0B924h	Standard
47397 #0B925h	Std
47398 #0B926h	Fixed
47399 #0B927h	Fix
47400 #0B928h	Scientific
47401 #0B929h	Sci
47402 #0B92Ah	Engineering
47403 #0B92Bh	Eng
47404 #0B92Ch	Degrees
47405 #0B92Dh	Deg
47406 #0B92Eh	Radians
47407 #0B92Fh	Rad
47408 #0B930h	Grads
47409 #0B931h	Grad
47410 #0B932h	Rectangular
47411 #0B933h	Polar
47412 #0B934h	Spherical
47413 #0B935h	SYSTEM FLAGS
47414 #0B936h	01 General solutions
47415 #0B937h	02 Constant → symb
47416 #0B938h	03 Function → symb
47417 #0B939h	14 Payment at end
47418 #0B93Ah	19 →V2 → vector
47419 #0B93Bh	20 Underflow → 0
47420 #0B93Ch	21 Overflow → ±9E499
47421 #0B93Dh	22 Infinite → error
47422 #0B93Eh	27 'X+Y*i' → '(X,Y)'
47423 #0B93Fh	28 Sequential plot
47424 #0B940h	29 Draw axes too
47425 #0B941h	31 Connect points
47426 #0B942h	32 Solid cursor
47427 #0B943h	35 ASCII transfer
47428 #0B944h	36 RECV renames
47429 #0B945h	37 Single-space prnt
47430 #0B946h	38 Add linefeeds
47431 #0B947h	39 Show I/O messages
47432 #0B948h	40 Don't show clock
47433 #0B949h	41 12-hour clock
47434 #0B94Ah	42 mm/dd/yy format
47435 #0B94Bh	43 Reschedule alarm
47436 #0B94Ch	44 Delete alarm
47437 #0B94Dh	51 Fraction mark: .
47438 #0B94Eh	52 Show many lines
47439 #0B94Fh	53 No extra parens
47440 #0B950h	54 Tiny element → 0
47441 #0B951h	55 Save last args
47442 #0B952h	56 Standard beep on

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47443 #0B953h	57 Alarm beep on
47444 #0B954h	58 Show INFO
47445 #0B955h	59 Show variables
47446 #0B956h	60 [α][α] locks
47447 #0B957h	61 [USR][USR] locks
47448 #0B958h	62 User keys off
47449 #0B959h	63 Custom ENTER off
47450 #0B95Ah	65 All multiline
47451 #0B95Bh	66 Stack:x lines str
47452 #0B95Ch	67 Digital clock
47453 #0B95Dh	68 No AutoIndent
47454 #0B95Eh	69 Line edit
47455 #0B95Fh	70 →GROB 1 line str
47456 #0B960h	71 Show addresses
47457 #0B961h	72 Stack:current fnt
47458 #0B962h	73 Edit:current font
47459 #0B963h	74 Right stack disp
47460 #0B964h	75 Key click off
47461 #0B965h	76 Purge confirm
47462 #0B966h	79 Textbook on
47463 #0B967h	80 EQW cur stk font
47464 #0B968h	81 GRB Alg cur font
47465 #0B969h	82 EQW edit cur font
47466 #0B96Ah	83 Display grobs on
47467 #0B96Bh	85 Normal stk disp
47468 #0B96Ch	90 CHOOSE:cur font
47469 #0B96Dh	91 MTRW:matrix
47470 #0B96Eh	92 MASD asm mode
47471 #0B96Fh	94 Result = LASTCMD
47472 #0B970h	95 RPN mode
47473 #0B971h	97 List:horiz disp
47474 #0B972h	98 Vector:horiz disp
47475 #0B973h	99 CAS:quiet
47476 #0B974h	100 Step by step off
47477 #0B975h	103 Complex off
47478 #0B976h	105 Exact mode on
47479 #0B977h	106 Simp. in series
47480 #0B978h	109 Sym. factorize
47481 #0B979h	110 Normal matrices
47482 #0B97Ah	111 Simp non rat.
47483 #0B97Bh	112 i simplified
47484 #0B97Ch	113 Linear simp on
47485 #0B97Dh	114 Disp $1+x \rightarrow x+1$
47486 #0B97Eh	115 SQRT simplified
47487 #0B97Fh	116 Prefer cos()
47488 #0B980h	117 CHOOSE boxes
47489 #0B981h	119 Rigorous on
47490 #0B982h	120 Silent mode off
47491 #0B983h	123 Allow Switch Mode
47492 #0B984h	125 Accur. Sign-Sturm
47493 #0B985h	126 rref w/ last col
47494 #0B986h	128 Cmplx var allowed
47495 #0B987h	01 Principal value
47496 #0B988h	02 Constant → num
47497 #0B989h	03 Function → num
47498 #0B98Ah	14 Payment at begin
47499 #0B98Bh	19 →V2 → complex

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47500 #0B98Ch	20 Underflow → error
47501 #0B98Dh	21 Overflow → error
47502 #0B98Eh	22 Infinite → ±9E499
47503 #0B98Fh	27 'X+Y*i' → 'X+Y*i'
47504 #0B990h	28 Simultaneous plot
47505 #0B991h	29 Don't draw axes
47506 #0B992h	31 Plot points only
47507 #0B993h	32 Inverse cursor
47508 #0B994h	35 Binary transfer
47509 #0B995h	36 RECV overwrites
47510 #0B996h	37 Double-space prnt
47511 #0B997h	38 No linefeeds
47512 #0B998h	39 No I/O messages
47513 #0B999h	40 Show clock
47514 #0B99Ah	41 24-hour clock
47515 #0B99Bh	42 dd.mm.yy format
47516 #0B99Ch	43 Don't reschedule
47517 #0B99Dh	44 Save alarm
47518 #0B99Eh	51 Fraction mark: ,
47519 #0B99Fh	52 Show one line
47520 #0B9A0h	53 Show all parens
47521 #0B9A1h	54 Use tiny element
47522 #0B9A2h	55 No last args
47523 #0B9A3h	56 Standard beep off
47524 #0B9A4h	57 Alarm beep off
47525 #0B9A5h	58 Don't show INFO
47526 #0B9A6h	59 Show names only
47527 #0B9A7h	60 [α] locks Alpha
47528 #0B9A8h	61 [USR] locks User
47529 #0B9A9h	62 User keys on
47530 #0B9AAh	63 Custom ENTER on
47531 #0B9ABh	65 Level 1 multiline
47532 #0B9ACh	66 Stk: 1 line str
47533 #0B9ADh	67 Analog clock
47534 #0B9AEh	68 AutoIndent
47535 #0B9AFh	69 Infinite line edit
47536 #0B9B0h	70 →GROB x lines str
47537 #0B9B1h	71 No addresses
47538 #0B9B2h	72 Stack:mini font
47539 #0B9B3h	73 Edit:mini font
47540 #0B9B4h	74 Left stack disp
47541 #0B9B5h	75 Key click on
47542 #0B9B6h	76 No purge confirm
47543 #0B9B7h	79 Textbook off
47544 #0B9B8h	80 EQW mini stk font
47545 #0B9B9h	81 GRB Alg mini font
47546 #0B9BAh	82 EQW edit mini frnt
47547 #0B9BBh	83 Display grobs off
47548 #0B9BCh	85 SysRPL stk disp
47549 #0B9BDh	90 CHOOSE:mini font
47550 #0B9BEh	91 MTRW:list of list
47551 #0B9BFh	92 MASD SysRPL mode
47552 #0B9C0h	94 Result <> LASTCMD
47553 #0B9C1h	95 Algebraic mode
47554 #0B9C2h	97 List:vert disp
47555 #0B9C3h	98 Vector:vert disp
47556 #0B9C4h	99 CAS:verbose

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47557 #0B9C5h	100 Step by step on
47558 #0B9C6h	103 Complex on
47559 #0B9C7h	105 Approx. mode on
47560 #0B9C8h	106 !Simp. in series
47561 #0B9C9h	109 Num. factorize
47562 #0B9CAh	110 Large matrices
47563 #0B9CBh	111 !Simp non rat.
47564 #0B9CCh	112 i not simplified
47565 #0B9CDh	113 Linear simp off
47566 #0B9CEh	114 Disp $x+1 \rightarrow 1+x$
47567 #0B9CFh	115 SQRT !simplified
47568 #0B9D0h	116 Prefer sin()
47569 #0B9D1h	117 Soft MENU
47570 #0B9D2h	119 Rigorous off
47571 #0B9D3h	120 Silent mode on
47572 #0B9D4h	123 Forb. Switch Mode
47573 #0B9D5h	125 FastSign-no Sturm
47574 #0B9D6h	126 rref w/o last col
47575 #0B9D7h	128 Vars are reals
47576 #0B9D8h	Object:
47577 #0B9D9h	Obs in
47578 #0B9DAh	Name:
47617 #0BA01h	1.Send to HP 49...
47618 #0BA02h	2.Get from HP 49
47619 #0BA03h	3.Print display
47620 #0BA04h	4.Print...
47621 #0BA05h	5.Transfer...
47622 #0BA06h	6.Start Server
47623 #0BA07h	Enter names of vars to send
47624 #0BA08h	Vars in
47625 #0BA09h	SEND TO HP 49
47626 #0BA0Ah	Port:
47627 #0BA0Bh	Dbl-Space
47628 #0BA0Ch	Delay:
47629 #0BA0Dh	Xlat:
47630 #0BA0Eh	Linef
47631 #0BA0Fh	Baud:
47632 #0BA10h	Parity:
47633 #0BA11h	Len:
47634 #0BA12h	Choose print port
47635 #0BA13h	Enter object(s) to print
47636 #0BA14h	Print extra space between lines?
47637 #0BA15h	Enter delay between lines
47638 #0BA16h	Choose character translations
47639 #0BA17h	Print linefeed between lines?
47640 #0BA18h	Choose baud rate
47641 #0BA19h	Choose parity
47642 #0BA1Ah	Enter printer line length
47643 #0BA1Bh	PRINT
47644 #0BA1Ch	Type:
47645 #0BA1Dh	OvrW
47646 #0BA1Eh	Fmt:
47647 #0BA1Fh	Chk:
47648 #0BA20h	Choose transfer port
47649 #0BA21h	Choose type of transfer
47650 #0BA22h	Enter names of vars to transfer
47651 #0BA23h	Choose transfer format

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47652 #0BA24h	Choose checksum type
47653 #0BA25h	Overwrite existing variables?
47654 #0BA26h	TRANSFER
47655 #0BA27h	Local vars
47656 #0BA28h	Remote PC files
47657 #0BA29h	Files in_
47658 #0BA2Ah	Enter name of dir to change to
47659 #0BA2Bh	Choose Remote Directory
47660 #0BA2Ch	Infrared
47661 #0BA2Dh	IR
47662 #0BA2Eh	Wire
47663 #0BA2Fh	Kermit
47664 #0BA30h	XModem
47665 #0BA31h	Odd
47666 #0BA32h	Even
47667 #0BA33h	Mark
47668 #0BA34h	Space
47669 #0BA35h	Spc
47670 #0BA36h	ASCII
47671 #0BA37h	ASC
47672 #0BA38h	Binary
47673 #0BA39h	Bin
47674 #0BA3Ah	None
47675 #0BA3Bh	Newline (Ch 10)
47676 #0BA3Ch	Newl
47677 #0BA3Dh	Chr 128-159
47678 #0BA3Eh	→159
47679 #0BA3Fh	→255
47680 #0BA40h	Chr 128-255
47681 #0BA41h	One-digit arith
47682 #0BA42h	Two-digit arith
47683 #0BA43h	Three-digit CRC
47873 #0BB01h	1.Single-var...
47874 #0BB02h	2.Frequencies...
47875 #0BB03h	3.Fit data...
47876 #0BB04h	4.Summary stats...
47877 #0BB05h	SINGLE-VARIABLE STATISTICS
47878 #0BB06h	σDAT:
47879 #0BB07h	Type:
47880 #0BB08h	Mean
47881 #0BB09h	Std Dev
47882 #0BB0Ah	Variance
47883 #0BB0Bh	Total
47884 #0BB0Ch	Maximum
47885 #0BB0Dh	Minimum
47886 #0BB0Eh	Enter statistical data
47887 #0BB0Fh	Enter variable column
47888 #0BB10h	Choose statistics type
47889 #0BB11h	Calculate mean?
47890 #0BB12h	Calculate standard deviation?
47891 #0BB13h	Calculate variance?
47892 #0BB14h	Calculate column total?
47893 #0BB15h	Calculate column maximum?
47894 #0BB16h	Calculate column minimum?
47895 #0BB17h	Sample
47896 #0BB18h	Population
47897 #0BB19h	FREQUENCIES

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47898 #0BB1Ah	X-Min:
47899 #0BB1Bh	Bin Count:
47900 #0BB1Ch	Bin Width:
47901 #0BB1Dh	Enter minimum first bin X value
47902 #0BB1Eh	Enter number of bins
47903 #0BB1Fh	Enter bin width
47904 #0BB20h	FIT DATA
47905 #0BB21h	X-Col:
47906 #0BB22h	Y-Col:
47907 #0BB23h	Model:
47908 #0BB24h	Enter indep column number
47909 #0BB25h	Enter dependent column number
47910 #0BB26h	Choose statistical model
47911 #0BB27h	Correlation
47912 #0BB28h	Covariance
47913 #0BB29h	PREDICT VALUES
47914 #0BB2Ah	Y:
47915 #0BB2Bh	Enter indep value or press PRED
47916 #0BB2Ch	Enter dep value or press PRED
47917 #0BB2Dh	SUMMARY STATISTICS
47918 #0BB2Eh	Calculate:
47919 #0BB2Fh	σX
47920 #0BB30h	σY
47921 #0BB31h	σX^2
47922 #0BB32h	σY^2
47923 #0BB33h	σXY
47924 #0BB34h	$N\sigma$
47925 #0BB35h	Calculate sum of X column?
47926 #0BB36h	Calculate sum of Y column?
47927 #0BB37h	Calculate sum of squares of X?
47928 #0BB38h	Calculate sum of squares of Y?
47929 #0BB39h	Calculate sum of products?
47930 #0BB3Ah	Calculate number of data points?
47931 #0BB3Bh	Linear Fit
47932 #0BB3Ch	Logarithmic Fit
47933 #0BB3Dh	Exponential Fit
47934 #0BB3Eh	Power Fit
47935 #0BB3Fh	Best Fit
47936 #0BB40h	5.Hypoth. tests...
47937 #0BB41h	6.Conf. interval...
48129 #0BC01h	1.Browse alarms...
48130 #0BC02h	2.Set alarm...
48131 #0BC03h	3.Set time, date...
48132 #0BC04h	SET ALARM
48133 #0BC05h	Message:
48134 #0BC06h	Time:
48135 #0BC07h	Date:
48136 #0BC08h	Repeat:
48137 #0BC09h	Enter "message" or « action »
48138 #0BC0Ah	Enter hour
48139 #0BC0Bh	Enter minute
48140 #0BC0Ch	Enter second
48141 #0BC0Dh	Choose AM, PM, or 24-hour time
48142 #0BC0Eh	Enter month
48143 #0BC0Fh	Enter day
48144 #0BC10h	Enter year
48145 #0BC11h	Enter alarm repeat multiple

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48146 #0BC12h	Enter alarm repeat unit
48147 #0BC13h	SET TIME AND DATE
48148 #0BC14h	Choose date display format
48149 #0BC15h	Monday
48150 #0BC16h	Tuesday
48151 #0BC17h	Wednesday
48152 #0BC18h	Thursday
48153 #0BC19h	Friday
48154 #0BC1Ah	Saturday
48155 #0BC1Bh	Sunday
48156 #0BC1Ch	None
48157 #0BC1Dh	AM
48158 #0BC1Eh	PM
48159 #0BC1Fh	24-hour time
48160 #0BC20h	24-hr
48161 #0BC21h	_1 January
48162 #0BC22h	_2 February
48163 #0BC23h	_3 March
48164 #0BC24h	_4 April
48165 #0BC25h	_5 May
48166 #0BC26h	_6 June
48167 #0BC27h	_7 July
48168 #0BC28h	_8 August
48169 #0BC29h	_9 September
48170 #0BC2Ah	10 October
48171 #0BC2Bh	11 November
48172 #0BC2Ch	12 December
48173 #0BC2Dh	Week
48174 #0BC2Eh	Day
48175 #0BC2Fh	Hour
48176 #0BC30h	Minute
48177 #0BC31h	Second
48178 #0BC32h	Weeks
48179 #0BC33h	Days
48180 #0BC34h	Hours
48181 #0BC35h	Minutes
48182 #0BC36h	Seconds
48183 #0BC37h	Month/Day/Year
48184 #0BC38h	M/D/Y
48185 #0BC39h	Day.Month.Year
48186 #0BC3Ah	D.M.Y
48187 #0BC3Bh	ALARMS
48385 #0BD01h	1.Integrate...
48386 #0BD02h	2.Differentiate...
48387 #0BD03h	3.Taylor poly...
48388 #0BD04h	4.Isolate var...
48389 #0BD05h	5.Solve quad...
48390 #0BD06h	6.Manip expr...
48391 #0BD07h	INTEGRATE
48392 #0BD08h	Expr:
48393 #0BD09h	Var:
48394 #0BD0Ah	Result:
48395 #0BD0Bh	Enter expression
48396 #0BD0Ch	Enter variable name
48397 #0BD0Dh	Enter lower limit
48398 #0BD0Eh	Enter upper limit
48399 #0BD0Fh	Choose result type

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48400 #0BD10h	Choose disp format for accuracy
48401 #0BD11h	DIFFERENTIATE
48402 #0BD12h	Value:
48403 #0BD13h	Enter variable value
48404 #0BD14h	Expression
48405 #0BD15h	TAYLOR POLYNOMIAL
48406 #0BD16h	Order:
48407 #0BD17h	Enter Taylor polynomial order
48408 #0BD18h	ISOLATE A VARIABLE
48409 #0BD19h	Principal
48410 #0BD1Ah	Get principal solution only?
48411 #0BD1Bh	SOLVE QUADRATIC
48412 #0BD1Ch	MANIPULATE EXPRESSION
48413 #0BD1Dh	MATCH EXPRESSION
48414 #0BD1Eh	Pattern:
48415 #0BD1Fh	Replacement:
48416 #0BD20h	Subexpr First
48417 #0BD21h	Cond:
48418 #0BD22h	Enter pattern to search for
48419 #0BD23h	Enter replacement object
48420 #0BD24h	Search subexpressions first?
48421 #0BD25h	Enter conditional expression
48422 #0BD26h	Symbolic
48423 #0BD27h	Numeric
48641 #0BE01h	Plot
48642 #0BE02h	Type:
48643 #0BE03h	Δ :
48644 #0BE04h	H-View:
48645 #0BE05h	Autoscale
48646 #0BE06h	V-View:
48647 #0BE07h	Choose type of plot
48648 #0BE08h	Choose angle measure
48649 #0BE09h	Enter function(s) to plot
48650 #0BE0Ah	Enter minimum horizontal value
48651 #0BE0Bh	Enter maximum horizontal value
48652 #0BE0Ch	Autoscale vertical plot range?
48653 #0BE0Dh	Enter minimum vertical value
48654 #0BE0Eh	Enter maximum vertical value
48655 #0BE0Fh	Plot (x(t), y(t))
48656 #0BE10h	Enter complex-valued func(s)
48657 #0BE11h	Plot $y'(t)=f(t,y)$
48658 #0BE12h	Enter function of INDEP and SOLN
48659 #0BE13h	Enter derivative w.r.t. SOLN
48660 #0BE14h	Enter derivative w.r.t. INDEP
48661 #0BE15h	Use Stiff diff eq solver?
48662 #0BE16h	σ Dat:
48663 #0BE17h	Col:
48664 #0BE18h	Wid:
48665 #0BE19h	Enter data to plot
48666 #0BE1Ah	Arrays in
48667 #0BE1Bh	Enter column to plot
48668 #0BE1Ch	Enter bar width
48669 #0BE1Dh	Cols:
48670 #0BE1Eh	Enter col to use for horizontal
48671 #0BE1Fh	Enter col to use for vertical
48672 #0BE20h	Steps:
48673 #0BE21h	Enter indep var sample count

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48674 #0BE22h	Enter dep var sample count
48675 #0BE23h	Plot Options
48676 #0BE24h	Lo:
48677 #0BE25h	Hi:
48678 #0BE26h	Axes
48679 #0BE27h	Simult
48680 #0BE28h	Connect
48681 #0BE29h	Pixels
48682 #0BE2Ah	H-Tick:
48683 #0BE2Bh	V-Tick:
48684 #0BE2Ch	Enter minimum indep var value
48685 #0BE2Dh	Enter maximum indep var value
48686 #0BE2Eh	Draw axes before plotting?
48687 #0BE2Fh	Connect plot points?
48688 #0BE30h	Plot functions simultaneously?
48689 #0BE31h	Enter indep var increment
48690 #0BE32h	Indep step units are pixels?
48691 #0BE33h	Enter horizontal tick spacing
48692 #0BE34h	Enter vertical tick spacing
48693 #0BE35h	Tick spacing units are pixels?
48694 #0BE36h	Depnd:
48695 #0BE37h	Enter dependent var name
48696 #0BE38h	Enter minimum dep var value
48697 #0BE39h	Enter maximum dep var value
48698 #0BE3Ah	H-Var:
48699 #0BE3Bh	V-Var:
48700 #0BE3Ch	Enter max indep var increment
48701 #0BE3Dh	Choose horizontal variable
48702 #0BE3Eh	Choose vertical variable
48703 #0BE3Fh	0 INDEP
48704 #0BE40h	1 SOLN
48705 #0BE41h	SOLN(
48706 #0BE42h	X-Left:
48707 #0BE43h	X-Right:
48708 #0BE44h	Y-Near:
48709 #0BE45h	Y-Far:
48710 #0BE46h	Z-Low:
48711 #0BE47h	Z-High:
48712 #0BE48h	Enter minimum X view-volume val
48713 #0BE49h	Enter maximum X view-volume val
48714 #0BE4Ah	Enter minimum Y view-volume val
48715 #0BE4Bh	Enter maximum Y view-volume val
48716 #0BE4Ch	Enter minimum Z view-volume val
48717 #0BE4Dh	Enter maximum Z view-volume val
48718 #0BE4Eh	XE:
48719 #0BE4Fh	YE:
48720 #0BE50h	ZE:
48721 #0BE51h	Enter X eyepoint coordinate
48722 #0BE52h	Enter Y eyepoint coordinate
48723 #0BE53h	Enter Z eyepoint coordinate
48724 #0BE54h	Save Animation
48725 #0BE55h	Save animation data after plot?
48726 #0BE56h	XX-Left:
48727 #0BE57h	XX-Right:
48728 #0BE58h	YY-Near:
48729 #0BE59h	YY-Far:
48730 #0BE5Ah	Enter minimum XX range value

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48731 #0BE5Bh	Enter maximum XX range value
48732 #0BE5Ch	Enter minimum YY range value
48733 #0BE5Dh	Enter maximum YY range value
48734 #0BE5Eh	XX and YY Plot Options
48735 #0BE5Fh	Zoom Factors
48736 #0BE60h	H-Factor:
48737 #0BE61h	V-Factor:
48738 #0BE62h	Recenter at Crosshairs
48739 #0BE63h	Enter horizontal zoom factor
48740 #0BE64h	Enter vertical zoom factor
48741 #0BE65h	Recenter plot at crosshairs?
48742 #0BE66h	Reset plot
48743 #0BE67h	Dflt
48744 #0BE68h	Auto
48745 #0BE69h	Function
48746 #0BE6Ah	Polar
48747 #0BE6Bh	Conic
48748 #0BE6Ch	Truth
48749 #0BE6Dh	Parametric
48750 #0BE6Eh	Diff Eq
48751 #0BE6Fh	Histogram
48752 #0BE70h	Bar
48753 #0BE71h	Scatter
48754 #0BE72h	Slopefield
48755 #0BE73h	Wireframe
48756 #0BE74h	Ps-Contour
48757 #0BE75h	Y-Slice
48758 #0BE76h	Gridmap
48759 #0BE77h	Pr-Surface
48897 #0BF01h	1.Solve equation...
48898 #0BF02h	2.Solve diff eq...
48899 #0BF03h	3.Solve poly...
48900 #0BF04h	4.Solve lin sys...
48901 #0BF05h	5.Solve finance...
48902 #0BF06h	SOLVE EQUATION
48903 #0BF07h	Enter value or press SOLVE
48904 #0BF08h	Eq:
48905 #0BF09h	Enter function to solve
48906 #0BF0Ah	Funcs in
48907 #0BF0Bh	Solver Variable Order
48908 #0BF0Ch	Variables:
48909 #0BF0Dh	Enter order of vars to display
48910 #0BF0Eh	SOLVE $Y'(T)=F(T,Y)$
48911 #0BF0Fh	f:
48912 #0BF10h	$\partial f \partial y$:
48913 #0BF11h	$\partial f \partial t$:
48914 #0BF12h	Indep:
48915 #0BF13h	Init:
48916 #0BF14h	Final:
48917 #0BF15h	Soln:
48918 #0BF16h	Tol:
48919 #0BF17h	Step:
48920 #0BF18h	Stiff
48921 #0BF19h	Enter function of INDEP and SOLN
48922 #0BF1Ah	Enter derivative w.r.t. SOLN
48923 #0BF1Bh	Enter derivative w.r.t. INDEP
48924 #0BF1Ch	Enter independent var name

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48925 #0BF1Dh	Enter initial indep var value
48926 #0BF1Eh	Enter final indep var value
48927 #0BF1Fh	Enter solution var name
48928 #0BF20h	Enter initial solution var value
48929 #0BF21h	Press SOLVE for final soln value
48930 #0BF22h	Enter absolute error tolerance
48931 #0BF23h	Enter initial step size
48932 #0BF24h	Calculate stiff differential?
48933 #0BF25h	f
48934 #0BF26h	Tolerance
48935 #0BF27h	Solution
48936 #0BF28h	SOLVE $AN \cdot X^N + \dots + A1 \cdot X + A0$
48937 #0BF29h	Coefficients [an ... a1 a0]:
48938 #0BF2Ah	Roots:
48939 #0BF2Bh	Enter coefficients or press SOLVE
48940 #0BF2Ch	Enter roots or press SOLVE
48941 #0BF2Dh	Coefficients
48942 #0BF2Eh	Roots
48943 #0BF2Fh	SOLVE SYSTEM $A \cdot X = B$
48944 #0BF30h	A:
48945 #0BF31h	B:
48946 #0BF32h	X:
48947 #0BF33h	Enter coefficients matrix A
48948 #0BF34h	Enter constants or press SOLVE
48949 #0BF35h	Enter solutions or press SOLVE
48950 #0BF36h	Constants
48951 #0BF37h	Solutions
48952 #0BF38h	N:
48953 #0BF39h	I%/YR:
48954 #0BF3Ah	PV:
48955 #0BF3Bh	PMT:
48956 #0BF3Ch	P/YR:
48957 #0BF3Dh	FV:
48958 #0BF3Eh	Enter no. of payments or SOLVE
48959 #0BF3Fh	Enter yearly int rate or SOLVE
48960 #0BF40h	Enter present value or SOLVE
48961 #0BF41h	Enter payment amount or SOLVE
48962 #0BF42h	Enter no. of payments per year
48963 #0BF43h	Enter future value or SOLVE
48964 #0BF44h	Choose when payments are made
48965 #0BF45h	TIME VALUE OF MONEY
48966 #0BF46h	N
48967 #0BF47h	I%/YR
48968 #0BF48h	PV
48969 #0BF49h	PMT
48970 #0BF4Ah	FV
48971 #0BF4Bh	End
48972 #0BF4Ch	Begin
48973 #0BF4Dh	Beg
48974 #0BF4Eh	AMORTIZE
48975 #0BF4Fh	Payments:
48976 #0BF50h	Principal:
48977 #0BF51h	Interest:
48978 #0BF52h	Balance:
48979 #0BF53h	Enter no. of payments to amort
48980 #0BF54h	Principal
48981 #0BF55h	Interest

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48982 #0BF56h	Balance
49153 #0C001h	Unable to find root
56833 #0DE01h	_denominator(s)_
56834 #0DE02h	root(s)_
56835 #0DE03h	last_
56836 #0DE04h	obvious_
56837 #0DE05h	factorizing_
56838 #0DE06h	value_
56839 #0DE07h	_test(s)_
56840 #0DE08h	searching_
56841 #0DE09h	TAYLR of ↓ at_
56842 #0DE0Ah	nth_
56843 #0DE0Bh	_is_
56844 #0DE0Ch	_numerator(s)_
56845 #0DE0Dh	Less than_
56846 #0DE0Eh	multiplicity_
56847 #0DE0Fh	list of_
56848 #0DE10h	_at_
56849 #0DE11h	factor(s)_
56850 #0DE12h	Eigenvalues_
56851 #0DE13h	Computing for
56852 #0DE14h	Root mult <
56853 #0DE15h	Numerical to symbolic
56854 #0DE16h	Invalid operator
56855 #0DE17h	Result:
56856 #0DE18h	Pivots
56857 #0DE19h	Press CONT to go on
56858 #0DE1Ah	Test_
56859 #0DE1Bh	To be implemented
56860 #0DE1Ch	Unable to factor
56861 #0DE1Dh	Z is not = 1 mod 4
56862 #0DE1Eh	Z is not prime
56863 #0DE1Fh	Empty {} of equations
56864 #0DE20h	Not reducible to a rational expression
56865 #0DE21h	Non unary operator
56866 #0DE22h	User function
56867 #0DE23h	Non isolable operator
56868 #0DE24h	Not exact system
56869 #0DE25h	Parameters not allowed
56870 #0DE26h	CAS internal error
56871 #0DE27h	Invalid ^ for SERIES
56872 #0DE28h	Operator not implemented (SERIES)
56873 #0DE29h	No variable in expr.
56874 #0DE2Ah	No solution found
56875 #0DE2Bh	Invalid derivation arg
56876 #0DE2Ch	No solution in ring
56877 #0DE2Dh	Not a linear system
56878 #0DE2Eh	Can't derive int. var
56879 #0DE2Fh	Diff equation order>2
56880 #0DE30h	INT:invalid var change
56881 #0DE31h	Mode switch cancelled
56882 #0DE32h	No name in expression
56883 #0DE33h	Invalid user function
56884 #0DE34h	Can't find ODE type
56885 #0DE35h	Integer too large
56886 #0DE36h	Unable to find sign
56887 #0DE37h	Non-symmetric matrix

HP49G Message Table

56888 #0DE38h	ATAN insufficient order
56889 #0DE39h	ASIN at infinity undef
56890 #0DE3Ah	Unsigned inf error
56891 #0DE3Bh	LN[Var] comparison err
56892 #0DE3Ch	Undef limit for var
56893 #0DE3Dh	Bounded var error
56894 #0DE3Eh	Got expr. indep of var
56895 #0DE3Fh	Can't state remainder
56896 #0DE40h	LN of neg argument
56897 #0DE41h	Insufficient order
56898 #0DE42h	ABS of non-signed 0
56899 #0DE43h	Numeric input
56900 #0DE44h	Singularity! Continue?
56901 #0DE45h	Cancelled
56902 #0DE46h	Negative integer
56903 #0DE47h	Parameter is cur. var. dependent
56904 #0DE48h	Unsimplified sqrt
56905 #0DE49h	Non polynomial system
56906 #0DE4Ah	Unable to solve ODE
56907 #0DE4Bh	Array dimension too large
56908 #0DE4Ch	Unable to reduce system
56909 #0DE4Dh	Complex number not allowed
56910 #0DE4Eh	Polyn. valuation must be 0
56911 #0DE4Fh	Mode switch not allowed here
56912 #0DE50h	Non algebraic in expression
56913 #0DE51h	Purge current variable_
56914 #0DE52h	Reduction result
56915 #0DE53h	Matrix not diagonalizable
56916 #0DE54h	Int[u*F(u)] with u=
56917 #0DE55h	Int. by part u*v, u=
56918 #0DE56h	Square root_
56919 #0DE57h	Rational fraction_
56920 #0DE58h	Linearizing_
56921 #0DE59h	Risch alg. of tower_
56922 #0DE5Ah	Trig. fraction, u=
56923 #0DE5Bh	Unknown operator (DOMAIN)
56924 #0DE5Ch	Same points
56925 #0DE5Dh	Unsigned inf. Solve?
56926 #0DE5Eh	CAS not available
56927 #0DE5Fh	Can not store current var
56928 #0DE60h	Not available on the HP40G
56929 #0DE61h	Not available on the HP49G
56930 #0DE62h	SERIES remainder is O(1) at order 3
56931 #0DE63h	Delta/Heaviside not available from HOME
56932 #0DE64h	Warning, integrating in approx mode
56933 #0DE65h	Function is constant
56934 #0DE66h	Can not unbind local vars
56935 #0DE67h	Replacing strict with large inequality
56936 #0DE68h	No valid environment stored
57601 #0E101h	Avogadro's number
57602 #0E102h	Boltzmann
57603 #0E103h	molar volume
57604 #0E104h	universal gas
57605 #0E105h	std temperature
57606 #0E106h	std pressure
57607 #0E107h	Stefan-Boltzmann
57608 #0E108h	speed of light

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57609 #0E109h	permittivity
57610 #0E10Ah	permeability
57611 #0E10Bh	accel of gravity
57612 #0E10Ch	gravitation
57613 #0E10Dh	Planck's
57614 #0E10Eh	Dirac's
57615 #0E10Fh	electronic charge
57616 #0E110h	electron mass
57617 #0E111h	q/me ratio
57618 #0E112h	proton mass
57619 #0E113h	mp/me ratio
57620 #0E114h	fine structure
57621 #0E115h	mag flux quantum
57622 #0E116h	Faraday
57623 #0E117h	Rydberg
57624 #0E118h	Bohr radius
57625 #0E119h	Bohr magneton
57626 #0E11Ah	nuclear magneton
57627 #0E11Bh	photon wavelength
57628 #0E11Ch	photon frequency
57629 #0E11Dh	Compton wavelen
57630 #0E11Eh	1 radian
57631 #0E11Fh	2 π radians
57632 #0E120h	Δ in trig mode
57633 #0E121h	Wien's
57634 #0E122h	k/q
57635 #0E123h	ϵ_0/q
57636 #0E124h	$q \cdot \epsilon_0$
57637 #0E125h	dielectric const
57638 #0E126h	SiO2 dielec cons
57639 #0E127h	ref intensity
57640 #0E128h	CONSTANTS LIBRARY
57641 #0E129h	Undefined Constant
58369 #0E401h	Invalid Mpar
58370 #0E402h	Single Equation
58371 #0E403h	EQ Invalid for MINIT
58372 #0E404h	Too Many Unknowns
58373 #0E405h	All Variables Known
58374 #0E406h	Illegal During MROOT
58375 #0E407h	Solving for _
58376 #0E408h	Searching
58881 #0E601h	No Solution
58882 #0E602h	Many or No Solutions
58883 #0E603h	I%YR/PYR \leq -100
58884 #0E604h	Invalid N
58885 #0E605h	Invalid PYR
58886 #0E606h	Invalid #Periods
58887 #0E607h	Undefined TVM Variable
58888 #0E608h	END mode
58889 #0E609h	BEGIN mode
58890 #0E60Ah	payments/year
58891 #0E60Bh	Principal
58892 #0E60Ch	Interest
58893 #0E60Dh	Balance
59137 #0E701h	NEAR_
59138 #0E702h	_MINE_
59139 #0E703h	_MINES_

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59140 #0E704h	__SCORE:~
59141 #0E705h	YOU MADE IT!!
59142 #0E706h	YOU BLEW UP!!
65537 #10001h	Invalid \$ROMID
65538 #10002h	Invalid \$TITLE
65539 #10003h	Invalid \$MESSAGE
65540 #10004h	Invalid \$VISIBLE
65541 #10005h	Invalid \$HIDDEN
65542 #10006h	Invalid \$EXTPRG
65793 #10101h	Invalid File
65794 #10102h	Too Many
65795 #10103h	Unknown Instruction
65796 #10104h	Invalid Field
65797 #10105h	Val betw 0-15 expected
65798 #10106h	Val betw 1-16 expected
65799 #10107h	Label Expected
65800 #10108h	Hexa Expected
65801 #10109h	Decimal Expected
65802 #1010Ah	Can't Find
65803 #1010Bh	Label already defined
65804 #1010Ch	{ expected
65805 #1010Dh	} expected
65806 #1010Eh	(expected
65807 #1010Fh	Forbidden
65808 #10110h	Bad Expression
65809 #10111h	Jump too Long
65810 #10112h	Val betw 1-8 expected
65811 #10113h	Insuffisant Memory
65812 #10114h	Matrix Error
65813 #10115h	Define Error
201729 #31401h	No Message here