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V+ Language Reference Guide, v17.x

System Messages - Numerical List

This section lists all the V+ messages that have a numeric code. Most message codes associated with errors can be made available to a program by the ERROR function, which returns the code of the latest error that occurred. In addition, the \$ERROR function returns the error message associated with any V+ error code.

The information for each message below consists of the message code, the text of the message, and sometimes a comment about the applicability of the message. Angle brackets (<...>) are used to enclose a description of an item that appears in that position. All numbers are decimal. For V+ version 16.0 or later, changes to V+ system messages are summarized in the V+ Release Notes.

The system messages are arranged numerically by system message code. For complete details on a message, click the message number to view the complete documentation. For a list of the system messages sorted alphabetically by the first character of the message, see System Messages - Alphabetical List.

Message Numbering Convention

Informational Messages (numbers 0-49) lists messages that provide information.

Warning Messages (number 50-299) lists warning messages that you may receive.

Error Messages (negative numbers) lists the error messages that you may receive.

Informational Messages

Code	Message Text	Comments
0	Not complete	
1	Success	(General success response)
2	<no message>	(Signals start of program execution)
3	Program completed	
4	Program task # stopped at ...	
5	<no message>	(Signals start of DO processing)
6	<no message>	(Signals completion of DO processing)
7	<program instruction step>	(For TRACE mode of execution)
8	(HALTED)	
9	(PAUSED)	
10	Are you sure (Y/N)?	
11	Change?	
12	Okay to restart the servos (Y/N)?	
15	Program HOLD	
16	*Input error* Try again:	
17	Breakpoint at (task) program_name, step n	
18	Watchpoint changed at (task) program_name, step n Old value: n, New value: n	

Warning Messages

Code	Message Text
50	Executing in DRY.RUN mode
51	*Warning* Not calibrated
52	*Warning* Protected and read-only programs are not stored
53	*Protected program*
54	*Warning* SET.SPEED switch disabled
55	*Warning* Monitoring watchpoint
56	*Warning* Watchdog timer disabled
57	Press HIGH POWER button to enable power
58	Push, release, hold, MCP enable switch
60	Press HIGH POWER button when blinking
100	Network connection opened
101	Network connection closed
102	Network packet partially read
103	*Warning* Network monitor interface not open

Error Messages

Code	Message Text
-1	*Not yet implemented*
-2	*Obsolete keyword*
-300	*Illegal monitor command*
-301	*No program specified*
-302	*DO not primed*
-303	*Controller not in automatic mode*
-304	*Controller not in manual mode*
-305	*Storage area format error*
-307	*Program not executable*
-308	*Program interlocked*
-309	*Program already exists*
-310	*Can't access protected or read-only program*
-311	*Invalid when program task active*
-312	*Can't start while program running*
-313	*Can't go on, use EXECUTE or PRIME*
-314	*Switch can't be enabled*
-315	*Invalid software configuration*
-316	*Software checksum error*
-317	*Controller not in network mode*
-318	*Program task not active*

Code	Message Text
-319	*Program task not in use*
-350	*Can't delete .PROGRAM statement*
-351	*First statement must be .PROGRAM*
-352	*Invalid in read-only mode*
-353	*No other program referenced*
-354	*Line too long*
-355	*Can't exit while lines attached*
-356	*Not found*
-357	*Recursive macros illegal*
-358	*Canceled*
-359	*Illegal in debug monitor mode*
-360	*Must be in debug mode*
-361	*Can't change modes while task running*
-362	*Can't execute from SEE program instruction*
-363	*Unknown editor command*
-364	*Can't create program in read-only mode*
-365	*Illegal in read-write mode*
-366	*Invalid when program on stack*
-380	*Breakpoint not allowed here*
-400	Aborted
-401	*Undefined value*
-402	*Illegal value*
-403	*Illegal assignment*
-404	*Illegal array index*
-405	*Illegal digital signal*
-406	*Undefined program or variable name*
-407	*Invalid argument*
-408	*Program argument mismatch*
-409	*Arithmetic overflow*
-410	*Negative square root*
-411	*Not enough storage area*
-412	*Branch to undefined label* Step nnn
-413	*Not enough program stack space*
-414	*Can't mix MC & program instructions*
-416	*String variable overflow*
-417	*String too short*
-418	*Illegal memory reference*
-419	*Illegal when command program active*
-420	*Undefined value in this context*
-421	*Program not on top of stack*

Code	Message Text
-422	*Function already enabled*
-423	*Illegal operation*
-424	*Unknown keyword*
-425	*Calibration program not loaded*
-426	*Can't find calibration program file*
-450	*Can't interpret line*
-451	*Unexpected text at end of line*
-452	*Unknown instruction*
-453	*Ambiguous name*
-454	*Missing argument*
-455	*Invalid program or variable name*
-456	*Invalid number format*
-457	*Reserved word illegal*
-458	*Illegal expression syntax*
-459	*Missing parenthesis*
-460	*Missing quote mark*
-461	*Invalid format specifier*
-462	*Unknown function*
-463	*Invalid statement label*
-464	*Duplicate statement label*
-465	*Variable type mismatch*
-466	*Illegal use of belt variable*
-467	*Illegal .PROGRAM statement*
-468	*Duplicate .PROGRAM arguments*
-469	*Attempt to redefine variable type*: variable_name
-470	*Attempt to redefine variable class*: variable_name
-471	*Misplaced declaration statement*
-472	*Control structure error* Step nnn
-473	*Control structure error*
-474	*Too many array indices*
-475	*Missing bracket*
-476	*Invalid qualifier*
-477	*Ambiguous AUTO invalid*
-500	*File already exists*
-501	*Nonexistent file*
-502	*Illegal I/O device command*
-503	*Device full*
-504	*Unexpected end of file*
-506	*File already open*

Code	Message Text
-507	*I/O communication error*
-508	*Device not ready*
-509	*Directory error*
-510	*Data checksum error*
-511	*Input block error*
-512	*File format error*
-513	*File not opened*
-514	*File or subdirectory name error*
-515	*Already attached to logical unit*
-516	*Not attached to logical unit*
-517	*I/O queue full*
-518	*Illegal I/O channel number*
-519	*Driver internal consistency error*
-520	*Invalid disk format*
-521	*Wrong disk loaded*
-522	*Data error on device*
-523	*Bad block in disk header*
-524	*Communications overrun*
-525	*Illegal I/O redirection specified*
-526	*No data received*
-527	*Illegal user LUN specified*
-528	*Illegal record length*
-529	*Output record too long*
-530	*Protection error*
-531	*Communication time-out*
-532	*Out of I/O buffer space*
-533	*Invalid hardware configuration*
-534	*Network restarted remotely*
-535	*Network closed locally*
-536	*Too many network errors*
-537	*Unknown network node*
-538	*Network node off line*
-539	*No matching connection*
-540	*Invalid connection specified*
-541	*Invalid network protocol*
-542	*Network not enabled*
-543	*Illegal when network enabled*
-544	*Not configured as accessed*
-545	*Nonexistent subdirectory*
-546	*Subdirectory list too long*

Code	Message Text
-547	*Subdirectory in use*
-548	*Illegal while protocol active*
-549	*Out of graphics memory*
-550	*Too many windows*
-551	*Font not loaded*
-552	*Graphics processor timeout*
-553	*Too many arguments*
-554	*Too many closeable windows*
-555	*Graphics storage area format error*
-557	*Can't create new slide bar*
-558	*Graphics software checksum error*
-559	*Out of network resources*
-560	*Invalid network resource*
-561	*Invalid network address*
-562	*Network timeout*
-563	*Remote has not exported network resource*
-564	*Network resource name conflict*
-565	*Network connection terminated*
-566	*Not owner*
-567	*Not a directory*
-568	*Is a directory*
-569	*File too large*
-570	*File name too long*
-571	*Directory not empty*
-587	*Network resource already in use*
-600	*Stopped due to servoing error*
-601	*Robot not attached to this program*
-602	*Robot already attached to program*
-603	*COMP mode disabled*
-604	*Robot power off*
-605	*Robot not calibrated*
-606	*Robot overheated*
-607	*No air pressure*
-608	*External E-STOP 1 detected by CPU*
-609	*Illegal joint number*
-610	*Location out of range*
-611	*Must use straight-line motion*
-612	*Straight-line motion can't alter configuration*
-613	*Illegal motion from here*
-614	*Attempt to modify active belt*

Code	Message Text
-615	*Belt not enabled*
-616	*Belt window violation*
-617	*Belt servo dead*
-618	*Location too close*
-619	*Invalid orientation*
-620	*Speed pot or STEP not pressed*
-621	*Robot interlocked*
-622	*No robot connected to system*
-623	*Stop-on-force triggered*
-624	*Force protect limit exceeded*
-625	*Invalid servo initialization data*
-626	*Can't ALTER and track belt*
-627	*Robot power on*
-628	*Robot module not loaded* ID:n
-629	*SYSFAIL detected by CPU*
-630	*Backplane E-STOP detected by CPU*
-632	*Power failure detected by robot*
-633	*PANIC command*
-635	*Cartesian control of robot not possible*
-636	*Trajectory clock overrun*
-637	*Illegal while joints SPIN'ing*
-638	*SPIN motion not permitted*
-639	*Manual brake release*
-640	*E-STOP from robot*
-641	*E-STOP from amplifier*
-642	*SYSFAIL detected by robot*
-643	*E-STOP detected by robot*
-644	*Incompatible safety configuration*
-645	*Power disabled: Manual/Auto changed*
-646	*HIGH POWER button not pressed*
-647	*Collision avoidance dead-lock*
-648	*Safety system not commissioned*
-649	*Timeout: MCP enable switch not toggled*
-650	*Manual control pendant failure*
-651	*RSC communications failure*
-652	*RSC reset*
-653	*RSC time-out*
-654	*RSC transmission garbled*
-655	*RSC bad packet format*
-656	*RSC calibration load failure*

Code	Message Text
-657	*Pendant Not Connected*
-658	*Device hardware not present*
-659	*Device time-out*
-660	*Device error*
-661	*NVRAM data invalid*
-662	*Device sensor error*
-663	*Device reset*
-665	*NVRAM battery failure*
-666	*Must use CPU #1*
-667	*Power failure detected*
-668	*Device in use*
-669	*RSC hardware failure*
-670	*RSC power failure*
-671	*Servo board 12V fuse open*
-672	*Servo board solenoid fuse open*
-673	*Servo board E-Stop fuse open*
-674	*Servo task overloaded*
-675	*Timeout enabling power*
-676	*RSC module ID doesn't match robot*
-677	*Servo protocol incompatible*
-678	*Duplicate servo node ID*
-679	*Expected servo node not found*
-680	*Servo node not downloaded*
-701	*VISION not enabled*
-702	*No prototypes*
-703	*Too many vision requests pending*
-704	*No objects seen*
-705	*Camera not running*
-706	*Invalid request while camera running*
-707	*Unknown prototype*
-710	*Camera disconnected*
-712	*Maximum number of prototypes exceeded*
-713	*Vision not calibrated*
-714	*Camera already running*
-717	*Not enough prototype storage area*
-718	*Duplicate prototype name*
-719	*Camera already off*
-720	*Vision option not installed*
-721	*Bad grip definition*
-722	*Camera interface board absent*

Code	Message Text
-723	*No picture data available*
-724	*Illegal display mode*
-726	*Bad camera calibration*
-727	*Invalid vision X/Y ratio*
-728	*Image processing board failure*
-729	*Invalid request while vision training*
-730	*Information not available*
-731	*Unknown sub-prototype*
-732	*Invalid model name*
-733	*Vision system out of memory*
-734	*Can't open vision window for read/write*
-735	*Invalid vision argument*
-736	*Font not defined*
-737	*Font already defined*
-738	*Font not completely trained*
-739	*Maximum number of samples trained*
-740	*Duplicate character in font*
-741	*Invalid character in font*
-742	*Character not in font*
-743	*Region too big*
-744	*Region too complicated*
-745	*Expected character(s) not found*
-746	*Template of uniform intensity*
-747	*Template not defined*
-748	*Template already defined*
-749	*Vision aborted*
-750	*Mixing half and full resolutions*
-751	*No vision system selected*
-752	*AOI not defined*
-753	*Out of vision transform memory*
-754	*Correlation template too big*
-755	*Data overflow*
-756	*A scratch frame store is needed (use VSELECT)*
-757	*Inconsistent hierarchy levels*
-758	*No models*
-759	*Unknown model*
-760	*Duplicate model*
-761	*No models planned*
-762	*Vision software incompatible*
-763	*Inconsistent model mode setting*

Code	Message Text
-764	*Not supported in simulated vision mode*
-765	*[Fatal] Vision processor failure*
-766	*Vision hardware/software mismatch*
-767	*Vision internal error*
-768	*Vision operation timeout*
-800	*Unknown error code*
-801	*Invalid VFEATURE access*
-802	*Invalid camera calibration*
-803	*Illegal camera number*
-804	*Option not installed*
-805	*Hardware not in system*
-859	*Database manager internal error*
-900	*Robot module not enabled*
-901	*Obstacle collision detected*
-902	*Interrupted multi-segment motion*
-903	*DeviceNet: Critical device off-line*
-904	*[Fatal] E-STOP signals are stuck off*
-905	*[Fatal] I/O processor failure*
-906	*Robot power off requested*
-907	*E-STOP circuit relay failure*
-908	*E-STOP from front panel button*
-909	*E-STOP from MCP E-STOP button*
-910	*E-STOP from user E-STOP button*
-911	*E-STOP from front panel external input*
-912	*E-STOP from user enable switch*
-913	*E-STOP from MCP enable switch*
-914	*E-STOP 2 detected by CPU*
-915	*MCP enable switch 1 off detected by CPU*
-916	*MCP enable switch 2 off detected by CPU*
-917	*Manual mode switch 1 off detected by CPU*
-918	*Manual mode switch 2 off detected by CPU*
-919	*E-STOP asserted by CPU*
-920	*[Fatal] Manual mode switch stuck off*
-921	*E-STOP from user muted safety gate*
-922	*E-STOP channels 1 and 2 do not match*
-923	*E-STOP circuit is shorted*
-924	*Front panel HIGH POWER lamp failure*
-925	*Front panel serial bus failure*
-927	*1394 communications timeout*
-929	*E-Stop from Line E-Stop input*

Code	Message Text
-931	*Servo hardware failure*
-932	*Manual mode cannot be enabled*
-935	*Orientation out of range*
-936	*Kinematic solution not found*
-939	*E-Stop unstable*
-999	Aborted
-1001	*Invalid servo error* Mtr n
-1002	*Position out of range* Jt
-1003	*Time-out nulling errors* Mtr n
-1004	*No zero index* Mtr n
-1005	*Unexpected zero index* Mtr n
-1006	*Soft envelope error* Mtr n
-1007	*Motor stalled* Mtr n
-1008	*Encoder quadrature error* Mtr n
-1009	*Timeout enabling amplifier* Mtr n
-1010	*Invalid error code* Belt n
-1011	*No zero index* Belt n
-1012	*Unexpected zero index* Belt n
-1013	*Encoder quadrature error* Belt n
-1014	*[Fatal] Initialization failure* Mtr n
-1015	*Initialization failure* Belt n
-1016	*Motor overheating* Mtr n
-1018	*Motor amplifier fault* Mtr n
-1021	*Duty-cycle exceeded* Mtr n
-1022	*Skew envelope error* Mtr n
-1023	*Position out of range* Mtr n
-1025	*Encoder fault* Mtr n
-1026	*Software incompatible* Code n
-1027	*Hard envelope error* Mtr n
-1028	*Soft overspeed error* Mtr n
-1029	*Negative overtravel* Mtr n
-1033	*Positive overtravel* Mtr n
-1034	*Overtravel* Mtr n
-1035	*Safety speed limit error* Chn nn
-1101	*[Fatal] Servo process dead* CPU n
-1102	*[Fatal] Servo code incompatible* CPU n
-1104	*[Fatal] Servo dead* Mtr n
-1105	*Motor startup failure* Mtr n
-1106	*Calibration sensor failure* Mtr n
-1107	*[Fatal] Servo init failure* CPU n

Code	Message Text
-1108	*Safety system init failure* Code n
-1109	*Safety system fault* Code n
-1110	*Unexpected PSS state* Code nnn
-1111	*E-STOP from safety system* Code n
-1112	*Remote digital input failed* Block N
-1113	*Remote digital output failed* Block N
-1115	*Robot power system failure* Code n
-1200 to -1299	*NFS error* Code n

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Last modified on: 6/24/2014

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