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Why does TASK.STacK show 100% stack usage for all tasks?

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TRACE32 OS awareness provides the start and end addresses of each task's stack (Low and high). To determine stack usage, TRACE32 scans the memory within this range and compares its contents against a predefined fill pattern.

For example, in the screenshots below, the expected pattern is 0xA5.

name	low	high	sp	%	lowest	spare	max	0	10	20	30	40	50	60	70	80	90	100
SieveDemo	20002AC8	20002CC8	20002C88	12%	20002BE0	00000118	45%											
QueueCons	20002878	20002A78	200029E0	29%	200029D8	00000160	31%											
IDLE	20002F68	20003168	20003120	14%	20003134	000001cc	10%											
StackEater	20002D18	20002F18	20002EA0	23%	20002D44	0000002c	91%											

address	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
UD:20002AC0																																	
UD:20002AE0	A5																																
UD:20002B00	A5																																
UD:20002B20	A5																																
UD:20002B40	A5																																
UD:20002B60	A5																																
UD:20002B80	A5																																
UD:20002BA0	A5																																
UD:20002BC0	A5																																
UD:20002BE0	25	00	00	00	34	00	00	00	25	00	00	00	00	00	00	00	70	28	00	20	1B	07	00	20	EA	06	00	20	00	00	00	61	
UD:20002C00	25	00	00	00	00	00	00	00	34	00	00	00	25	00	00	00	70	28	00	20	CE	2B	00	00	7E	00	00	00	59	00	00	00	
UD:20002C20	28	2c	00	20	1b	07	00	20	cc	2c	00	20	01	00	00	17	2c	00	00	0f	00	00	00	7c	2a	00	20	84	07	00	00		
UD:20002C40	34	00	00	00	25	00	00	00	50	2c	00	20	1b	07	00	00	07	00	00	02	00	00	00	00	a3	33	00	00	06	00	00		
UD:20002C60	00	00	00	00	3b	01	00	00	15	00	00	0f	00	00	00	78	2c	00	20	1b	07	00	20	28	23	00	20	03	00	00	00		
UD:20002C80	E2	34	00	00	01	00	00	00	B3	78	00	00	00	00	00	B8	22	00	20	A5	A0	2c	00	20									
UD:20002CA0	00	00	00	00	00	00	00	00	C0	12	00	00	D4	12	00	00	A5	19	0c	00	20												
UD:20002CC0	A5																																

If TRACE32 is configured to expect a different pattern than the one actually used by the operating system, it will incorrectly report 100% stack usage in **TASK.STacK**.

To resolve this, specify the correct fill pattern with the command:

TASK.STacK.PATtern

For more details, refer to the description of this command in the [General Commands Reference Guide T](#).