TIP Driver – Step Log

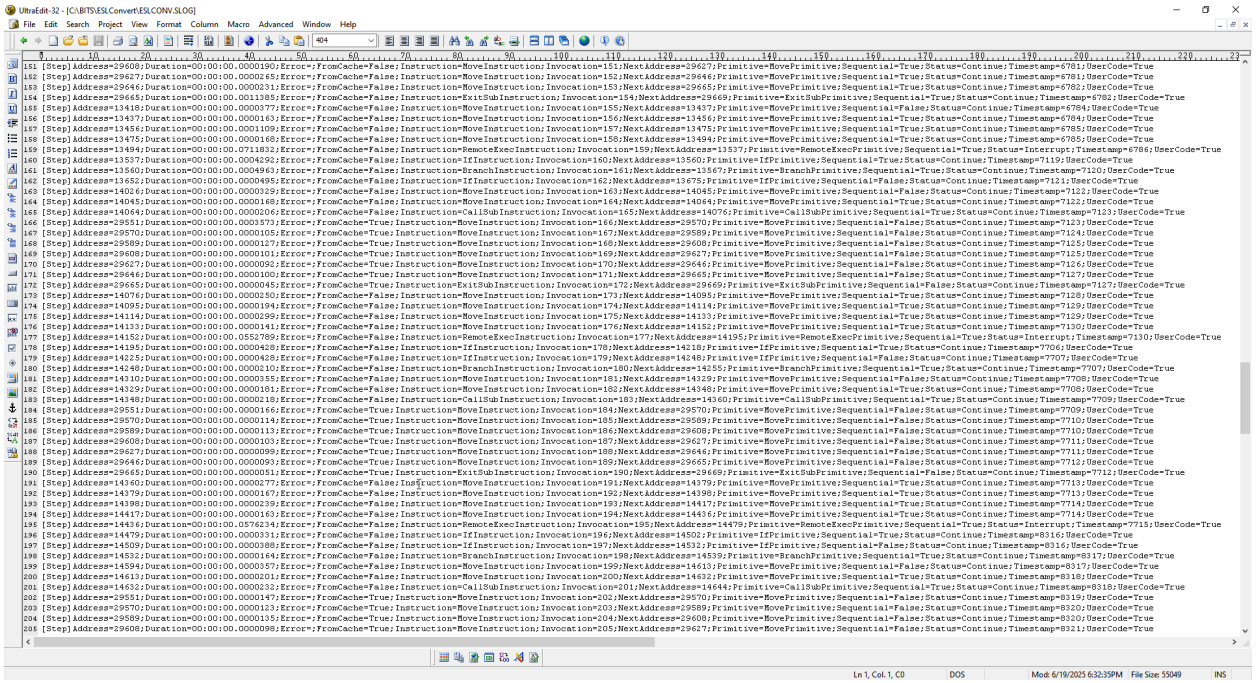
The TIP Driver has the capability to produce a log file that contains every instruction that is executed, instruction by instruction (or step by step). This can be very useful when trying to debug a problem and you don't have much visibility of where the problem is.

<u>To tell the TIP Driver that you want it to produce the step log for you, you must</u>:
~Put a file (empty to start with) **in the same file folder** that the TIP is in. The file name must be the name of the TIP with a file extension of SLOG. **For example**, if the name of your TIP is ShopFloor.TIP, the name of the step file would be ShopFloor.SLOG.

When the TIP is started using the TIP Driver, it looks for the presence on the SLOG file.
~In this example, it would look for a file name of ShopFloor.SLOG.
If the file doesn't exist, then no step log debugging will occur. If it does exist, then debugging will start and the results will be written to the ShopFloor.SLOG file.

The SLOG file, if present, will get larger and larger as time goes by and instructions are executed. At this time, no automated reset of the SLOG file exists. **Each day you should reset the SLOG file back to empty until the problem occurs**. If the problem is an ABEND (for example) in the TIP, then copy off the SLOG file to a PC and the last entry in the SLOG file should be the instruction that was executed or about to be executed before the abend occurred.

**The following is an example of a SLOG file:

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[Step]Address=29608;Duration=00:00:00.0000190;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=151;NextAddress=29627;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=6781;UserCode=True
[Step]Address=29627;Duration=00:00:00.0000265;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=152;NextAddress=29646;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=6781;UserCode=True
[Step]Address=29646;Duration=00:00:00.0000231;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=153;NextAddress=29665;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=6782;UserCode=True
[Step]Address=29665;Duration=00:00:00.0011385;Error=;FromCache=False;Instruction=ExitSubInstruction;Invocation=154;NextAddress=29669;Primitive=ExitSubPrimitive;Sequential=True;Status=Continue;Timestamp=6782;UserCode=True
[Step]Address=13418;Duration=00:00:00.0000377;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=155;NextAddress=13437;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=6784;UserCode=True
[Step]Address=13437;Duration=00:00:00.0000163;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=156;NextAddress=13456;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=6784;UserCode=True
[Step]Address=13456;Duration=00:00:00.0001109;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=157;NextAddress=13475;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=6785;UserCode=True
[Step]Address=13475;Duration=00:00:00.0000168;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=158;NextAddress=13494;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=6785;UserCode=True
[Step]Address=13494;Duration=00:00:00.0711832;Error=;FromCache=False;Instruction=RemoteExecInstruction;Invocation=159;NextAddress=13537;Primitive=RemoteExecPrimitive;Sequential=True;Status=Interrupt;Timestamp=6786;UserCode=True
[Step]Address=13537;Duration=00:00:00.0004292;Error=;FromCache=False;Instruction=IfInstruction;Invocation=160;NextAddress=13560;Primitive=IfPrimitive;Sequential=True;Status=Continue;Timestamp=7119;UserCode=True
[Step]Address=13560;Duration=00:00:00.0004943;Error=;FromCache=False;Instruction=BranchInstruction;Invocation=161;NextAddress=13567;Primitive=BranchPrimitive;Sequential=True;Status=Continue;Timestamp=7120;UserCode=True
[Step]Address=13652;Duration=00:00:00.0000495;Error=;FromCache=False;Instruction=IfInstruction;Invocation=162;NextAddress=13675;Primitive=IfPrimitive;Sequential=False;Status=Continue;Timestamp=7121;UserCode=True
[Step]Address=14026;Duration=00:00:00.0000329;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=163;NextAddress=14045;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7122;UserCode=True
[Step]Address=14045;Duration=00:00:00.0000168;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=164;NextAddress=14064;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7122;UserCode=True
[Step]Address=14064;Duration=00:00:00.0000206;Error=;FromCache=False;Instruction=CallSubInstruction;Invocation=165;NextAddress=14076;Primitive=CallSubPrimitive;Sequential=True;Status=Continue;Timestamp=7123;UserCode=True
[Step]Address=29551;Duration=00:00:00.0003573;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=166;NextAddress=29570;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7123;UserCode=True
[Step]Address=29570;Duration=00:00:00.0000105;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=167;NextAddress=29589;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7124;UserCode=True
[Step]Address=29589;Duration=00:00:00.0000127;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=168;NextAddress=29608;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7125;UserCode=True
[Step]Address=29608;Duration=00:00:00.0000101;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=169;NextAddress=29627;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7125;UserCode=True
[Step]Address=29627;Duration=00:00:00.0000092;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=170;NextAddress=29646;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7126;UserCode=True
[Step]Address=29646;Duration=00:00:00.0000100;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=171;NextAddress=29665;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7127;UserCode=True
[Step]Address=29665;Duration=00:00:00.0000045;Error=;FromCache=True;Instruction=ExitSubInstruction;Invocation=172;NextAddress=29669;Primitive=ExitSubPrimitive;Sequential=False;Status=Continue;Timestamp=7127;UserCode=True
[Step]Address=14076;Duration=00:00:00.0000250;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=173;NextAddress=14095;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7128;UserCode=True
[Step]Address=14095;Duration=00:00:00.0000194;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=174;NextAddress=14114;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7129;UserCode=True
[Step]Address=14114;Duration=00:00:00.0000299;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=175;NextAddress=14133;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7129;UserCode=True
[Step]Address=14133;Duration=00:00:00.0000141;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=176;NextAddress=14152;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7130;UserCode=True
[Step]Address=14152;Duration=00:00:00.0552789;Error=;FromCache=False;Instruction=RemoteExecInstruction;Invocation=177;NextAddress=14195;Primitive=RemoteExecPrimitive;Sequential=True;Status=Interrupt;Timestamp=7130;UserCode=True
[Step]Address=14195;Duration=00:00:00.0000428;Error=;FromCache=False;Instruction=IfInstruction;Invocation=178;NextAddress=14218;Primitive=IfPrimitive;Sequential=True;Status=Continue;Timestamp=7706;UserCode=True
[Step]Address=14225;Duration=00:00:00.0000428;Error=;FromCache=False;Instruction=IfInstruction;Invocation=179;NextAddress=14248;Primitive=IfPrimitive;Sequential=False;Status=Continue;Timestamp=7707;UserCode=True
[Step]Address=14240;Duration=00:00:00.0000210;Error=;FromCache=False;Instruction=BranchInstruction;Invocation=180;NextAddress=14255;Primitive=BranchPrimitive;Sequential=True;Status=Continue;Timestamp=7707;UserCode=True
[Step]Address=14310;Duration=00:00:00.0000355;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=181;NextAddress=14329;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7708;UserCode=True
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[Step]Address=14348;Duration=00:00:00.0000218;Error=;FromCache=False;Instruction=CallSubInstruction;Invocation=183;NextAddress=14360;Primitive=CallSubPrimitive;Sequential=True;Status=Continue;Timestamp=7709;UserCode=True
[Step]Address=29551;Duration=00:00:00.0000166;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=184;NextAddress=29570;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7709;UserCode=True
[Step]Address=29570;Duration=00:00:00.0000114;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=185;NextAddress=29589;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7710;UserCode=True
[Step]Address=29589;Duration=00:00:00.0000113;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=186;NextAddress=29608;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7710;UserCode=True
[Step]Address=29608;Duration=00:00:00.0000103;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=187;NextAddress=29627;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7711;UserCode=True
[Step]Address=29627;Duration=00:00:00.0000099;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=188;NextAddress=29646;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7711;UserCode=True
[Step]Address=29646;Duration=00:00:00.0000093;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=189;NextAddress=29665;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=7712;UserCode=True
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[Step]Address=14360;Duration=00:00:00.0000277;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=191;NextAddress=14379;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7713;UserCode=True
[Step]Address=14379;Duration=00:00:00.0000167;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=192;NextAddress=14398;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7713;UserCode=True
[Step]Address=14398;Duration=00:00:00.0000239;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=193;NextAddress=14417;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7714;UserCode=True
[Step]Address=14417;Duration=00:00:00.0000163;Error=;FromCache=False;Instruction=MoveInstruction;Invocation=194;NextAddress=14436;Primitive=MovePrimitive;Sequential=True;Status=Continue;Timestamp=7714;UserCode=True
[Step]Address=14436;Duration=00:00:00.0576234;Error=;FromCache=False;Instruction=RemoteExecInstruction;Invocation=195;NextAddress=14479;Primitive=RemoteExecPrimitive;Sequential=True;Status=Interrupt;Timestamp=7715;UserCode=True
[Step]Address=14479;Duration=00:00:00.0000331;Error=;FromCache=False;Instruction=IfInstruction;Invocation=196;NextAddress=14502;Primitive=IfPrimitive;Sequential=True;Status=Continue;Timestamp=8316;UserCode=True
[Step]Address=14509;Duration=00:00:00.0000388;Error=;FromCache=False;Instruction=IfInstruction;Invocation=197;NextAddress=14532;Primitive=IfPrimitive;Sequential=False;Status=Continue;Timestamp=8316;UserCode=True
[Step]Address=14532;Duration=00:00:00.0000164;Error=;FromCache=False;Instruction=BranchInstruction;Invocation=198;NextAddress=14539;Primitive=BranchPrimitive;Sequential=True;Status=Continue;Timestamp=8317;UserCode=True
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[Step]Address=29551;Duration=00:00:00.0000147;Error=;FromCache=True;Instruction=MoveInstruction;Invocation=202;NextAddress=29570;Primitive=MovePrimitive;Sequential=False;Status=Continue;Timestamp=8319;UserCode=True
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