MTS3 Training



Environment Setup



Preparing for using MTS3

- User should prepare the following equipment:
 - \cdot PE card
 - · PXI chassis
 - · C/C++ program (Visual C++, Version:2010~2013)
 - · Adobe Reader V11.0
 - \cdot PC or NB
 - · 68 pin vhdci cable
 - · DUT board

Visual C++ Version:2013 (Standard)



Download and Install MTS3

- Download MTS3 install file from OpenATE official web
 - http://www.openate.com/





MTS3 TEST PLATFORM

MTS3 is a compact software platform that includes test program development, test operation and debug functionalities. Based on open architectural design, this platform can run on any hardware on Windows and can easily add new instruments API and utilities.

Loading applic Loading - PA Loading - PA Loading - PA Loading - QS Loading - QS Loading - GP Loading - GP Loading - PH Loading - PH Loa	Setup Utils Setup Utils ations: IEDIT.exe MUCAL.exe PICAL.exe S: Lall Bi.dll IBi.dll SUILD.dll - C./OpenAT. ATE/mts3/n	Experimental Apps I	uto/CTL.	2		
OPEN Poj DEMO SEQ f ## UT GPIB.c UTY C:Oper GPIB Control	ct C:/Open.A unction III exec ATE/mts3/c Panel constr	ATEMTS3/di ut/GPIB.dll n nucted	emo_proj m	ects/demol)4.mpj	
	AD					
O WINLO/						
ata shee	t					

1 2 1. Data sheet: User can download MTS3 data sheet, including simple using instructions.

2. Install: Download MTS3 install file from this link.



• Step 1:

Click and install mts3_VISAinstall201xxxxx.exe

MTS3: Multi-site Test System 3: Installation – Setup will install MTS3 in the following folder. Please DO NOT change default setting.	- 🗆	×	MTS3: Multi-site Test System 3: Installing —	×
Click Install to start the installation. Destination Folder c:\OpenATE\MTS3	Browse		Extract: QSPIUserManu.pdf 100% Output folder: c:\OpenATE\MTS3\doc Extract: SMU64UserManu.pdf 100% Output folder: c:\OpenATE\MTS3\doc	^
			Updating Evnironment Variables	
Space required: 15.7MB			Adding c:\OpenATE\MTS3\bin to PATH Adding C:\Program Files\Microsoft Visual Studio 10.0\VC\bin to PATH Adding c:\OpenATE\MTS3\lib to lib	
Space available: 164.4GB			Adding C. Programmies (victosoft visual Studio 10.0 (VC (ib to lib	\sim
Cancel Nullsoft Install System v2,39	Ins	tall	Cancel Nullsoft Install System v2.39 < Back	Close

Step 2

Install Compiler "**Visual C++ 2013 Express**" Complete the following instructions after installing the VC++: (a) Add "C:\Program Files (x86)\Adobe\Reader11.0\Reader" to PATH.

Step 3: Download "NI-VISA" and install



Introduction to MTS3



Documents

MTS3 user manual

- · C:\OpenATE\MTS3\doc\mts3_user.manual.pdf
- · C:\OpenATE\MTS3\doc\MTS3_install_readme.pdf



Features

- ATE software platform which can run with any hardware on Windows.
- Reconfigurable for new instruments API
- C/C++ development environments
- Integrated debugging capabilities:
 - DATALOG , DEBUG, OVERRIDE, STOP ON_FAIL
- Loop test capability
- Summary report ready



Features (cnt.)

- Datalog to file or STDF data format
- Multi-sites testing capability
 - No need to modify test program
 - One single test program for multi-sites testing
- Reconfigurable prober / handler interface.
- Easy to connect any type of prober / handler form any peripheral supplier



Software Architecture





Bin related functions





State Diagram

The following is the state diagram for MTS3:

-When user opens or creates a project, Exec it, the INIT module will be invoked and then the system stays at Standby state and waiting for TStart from PHI.

-When MTS3 receives TStart, the TEST module will be invoked, then followed by EOT module, and then after TEST & EOT have ope completed execution, the system goes back to Standby again and waits for next Tstart.

- When RESET button is pressed by user during above operations, the PD will be invoked, and then the system goes to Ready state.





Test program structure

- INIT
 - The INIT module is responsible for the initialization of the test program. User should place all the initial routines or start-up procedures in here.
- TEST
 - The TEST module is the main test sequence. User should put all the test statements that applied to DUT in this module.
 Device pass/fail decision and binning strategy should be placed in this module.



Test program structure (cnt.)

• EOT

 The EOT module will be called after TEST module is executed completed; so the EOT module also applied to each device under test.

• POWERDOWN

 The POWERDOWN module (PD) is invoked when user want to leave the MTS3 system and hoping to turn off all instrument powers insure safety of the test system.



User Interface for MTS3



• Utility \rightarrow TPBUILD





GLOBAL

 Declare global variables and functions.





INIT

- We write initialization action in INIT window.
- When the "Exec" button or "Init" button is pressed, it will be initialized.





TEST

- We write test programs in TEST window.
- When the "Tstart" button is pressed, it will execute the program in TEST window.





E0T

- The EOT module will be called after TEST module is executed completed.
- So the EOT module also applied to each device under test.





PWD

 The POWERDOWN module (PD) is invoked when user wants to quit the MTS3 test program(RESET pressed) and turn off all instrument powers to insure safety of the test system.





Demo Project1

Step-by-step



Demo Project_1

Demo PAUSE

The open solution for IC tester

GLOBAL INIT TEST EOT PWD LIB			
<pre>int bin, site; </pre>	a ^L CTL	?	\times
<pre>if(mts3_get_datalog()) mts3_msg("SITE %d TEST", site=mts3_getSite()); if(i>8) i=1; mts3_pause("T1 Click Continue to break PAUSE"); bin=i++; mts3_bin(bin_);</pre>	ACT BIN 1 Active 0		
		мах	SITE
	1000 ÷ Clear Summary		÷
	PAUSE and click continue	RUN T	P

Introduction to API

- void mts3_msg(const char *sFormat, ...);
 - · Print message.
 - · Usage: arguments are same as c standard function "printf".
- bool mts3_get_datalog();
 - · Return button 'Datalog' state of main dialog.
- void mts3_bin_setSoftName(int iBin, char *s);
 - · Set name of specified software bin.



Introduction to API

void mts3_pause(char *msg);

· Pause execution of test program until user hits continue button.

- void mts3_bin(int iBin);
 - · Issue bin for current test.



- Open MTS3
- Open project "C:\OpenATE\MTS3\demo_projects\demo01pause.mpj"
- Open TPBUILD < Utility \rightarrow TPBUILD >

<mark>ד</mark> mts3 - C:/OpenATE/MTS3/demo_projects/ — 🛛 🛛 🛛	🚰 TPBUILD - C:/OpenATE/MTS3/demo_projects/demo01pause.mpj	- 🗆 X
Project Run Setup Utility Apps Help	File Edit	
🔊 🖈 🍐 🛎 🕨 🎬 🐼 EngineerMode	D S ■ 🔚 🤚 🗢 🛠 D 🗈 + - 🛃 mts3.h GLOBAL INIT TEST EOT PWD LIB TPBU	JILD
OPEN Poject C:OpenATEMTS3\bin\MTS3.exe Run Sys: Loading applications: Loading - PATEDIT.exe Loading - OHL.dll Loading - OHL.dll Loading - TPBUILD.dll AUTO RUN - C:OpenATE/mts3/ut/Auto/CTL.dll UTY C:OpenATE/mts3/ut/Auto/CTL.dll UTY C:OpenATE/mts3/ut/Auto/CTL.dll Loading - MTS3_intsall_readme.pdf Loading - MTS3_intsall_readme.pdf Loading - PEI2UserManu.pdf Loading - PEI2UserManu.pdf Loading - PEI2UserManu.pdf Loading - PEI2UserManu.pdf Run TSP: OPEN OPEN Poject C:OpenATE/MTS3/demo_projects/demo01 pause.mpj ## UT TPBUILD.dll exec UTY C:OpenATE/mts3/ut/TPBUILD.dll run OPEN Poject C:OpenATE/MTS3/demo_projects/demo01 pause.mpj	<pre>int mt3_api() void mt3_msg(const d; void mt3_get(sold) bool mt3_get(sold) bool mt3_get(overnde() void mt3_msg(const d; void mt3</pre>	



• You can press "Datalog" button to see some information.

GLOBAL INIT TEST EOT PWD LIB	dr CTL	?	×
<pre>mts3_msg("DEMO PAUSE, Use StopOnFail to active PAUSE function</pre>	n");		
<pre>if(mts3_get_datalog()) mts3_msg("SITE %d INIT", mts3_getSite()); mts3_bin_setSoftName(1, "PASS"); </pre>		MAX	SITE
<pre>mts3_bin_setSoftName(2, "O/S FAIL"); mts3_bin_setSoftName(3, "IDD FAIL"); mts3_bin_setSoftName(4, "Funtion FAIL"); mts3_bin_setSoftName(5, "DC FAIL");</pre>	When you press "Datalog" button, you can see information.		÷



Press "Exec" button to initialize.



OpenATE Inc. The open solution for IC tester

Press "Tstart" button to run the test program once.

mts3 - C:/OpenATE/MTS3/demo_projects/ — 🛛 🗙	a ^L CTL	?	\times
Project Run Setup Utility Apps Help	ACT BIN		
🖄 💉 🌰 욛 🕨 🎬 🙆 EngineerMode	1 Active 3		
Loading - mts3 user.manual.pdf Loading - PEI32User.Manu.pdf Loading - QSPIUser.Manu.pdf Run TSP OPEN Poject C.OpenATEMTS3/demo_projects/demc01 pause.mpj ## UT TPBUILD.dll exec UTY C.OpenATEMts3/ut/TPBUILD.dll run OPEN Poject C.OpenATEMTS3/demo_projects/demc01 pause.mpj DEMO PAUSE Use StopOnFail to active PAUSE function SITE 1 TEST the first time SN1 Site 1 BIN1 TSTART SITE 1 TEST the second time SN2 Site 1 BIN2 TSTART SITE 1 TEST the third time SN3 Site 1 BIN3	LOOP I Clear Summary 1000 I Clear Summary	MAX S	



You can press "Loop" button to run several times.





- Now, we will test mts3_pause() function.
- You must press "Pause" button and press "Tstart" button to run the test program once.





Press "Continue" button to continue execution.





Press "Summary" button to see summary information.





- Press "Reset" button to finish execution.
- Press "Clear" button to clear the number of times.

Project Run Setup Utility Apps Help	ACT BIN Active		
TSTART SITE 1 TEST Site#1: SOF! T1 Click Continue to break PAUSE CONTINUE SITE 1 BOT SITE 1 BOT MTS2 Summary Report for TP: C:/OpenATE/MTS3/demo_projects/demc01 00:49:05 Total tested: 14 Bin#001 PASS : 2: 14.29 Bin#002 O/S FAIL : 2: 14.29 Bin#003 IDD FAIL : 2: 14.29 Bin#004 Funtion FAIL : 2: 14.29 Bin#005 DC FAIL : 2: 14.29 Bin#006 SBin_6 : 2: 14.29 Bin#007 SBin_7 : 1 : 7.14 Bin#008 SBin_8 : 1 : 7.14 SITE 1 POWER DOWN	OP Clear Summary 10 No No N	MAX SI	ITE



Demo Project2

Step-by-step



GLOBAL INIT TEST EOT PWD LIB

if(mts3_get_datalog())mts3_msg("SITE %d ---- TEST ----", mts3_getSite());

DemoTIMER





Introduction to API

- void mts3_start_timer();
- double mts3_get_timer();

• These two functions are used to measure the time elapsed from one point to another in the test program.

- mts3_start_time() : Mark current time.
- mts3_get_timer() : Return the time elapsed (in ms) since last call to mts3_start_time().
- If datalog is on, the time will also be printed in the datalog pane.



- Open MTS3
- Open project "C:\OpenATE\MTS3\demo_projects\demo02timer.mpj"
- Open TPBUILD < Utility \rightarrow TPBUILD >

Step2

You can press "Datalog" button to see some information.

Step3

Press "Exec" button to initialize.



Step4

Press "Tstart" button to run the test program once.



- Press "Reset" button to finish execution.
- Increase the number of sites.
- Press "Exec" button to initialize.

mts3 - C:/OpenATE/MTS3/demo_projec — 🛛 🗙	₫ ^L CTL			? ×
Project <mark>3</mark> un Setup Utility Apps Help	ACT	PINI		
🖄 💉 🍲 🕒 📲 🐼 EngineerMode	1 Active	0		
OPEN	2 Active	0		
OPEN Poject C:/OpenATE/MTS3/demo_projects/demo02timer.mpj DEMO Timer function	3 🖌 Active	0		
SITE 1 INIT TSTART SITE 1 TEST TIMER 11.00 mS,SITE 1 TIMER 11.00000 I AM SITE 1 SITE 1 EOT SN 1 Site 1 BIN1 SITE 1 POWER DOWN DEMO Timer function DEMO Timer function SITE 3 INIT SITE 1 INIT SITE 2 INIT			Clear Summary	2 MAX SITE 3
				1
				RUN TP



Threading



Press "Tstart" button to run the test program once.



OpenATE Inc. The open solution for IC tester

Demo Project3

Step-by-step



Demo Project 3

GLOBAL INIT TEST EOT PWD LIB if(mts3 get datalog())mts3 msg("SITE %d ---- TEST ----", mts3 getSite()); if(i>10) i=1; mts3 start timer(); if(mts3 once()){ mts3_msg(" ---- ONCE TEST ----I AM SITE %d", mts3_getSite()); MSleep(100); if(mts3 get debug())mts3 once(); mts3 msg(" ---- TIMER %f ----I AM SITE %d",mts3 get_timer(), mts3_getSite()); mts3 bin(i++); mts3 - C:/OpenATE/MTS3/demo_projects/demo03once.mpj \times d CTL \times Project Run Setup Utility Apps Help ACT BIN 9 - **X**-EngineerMode 6 1 ✓ Active 4 2 < Active -TIMER 100.00 mS.SITE 2 ---- TIMER 100.000000 ----I AM SITE 2 5 3 🖌 Active SITE 1 ---- EOT ----SITE 2 ---- EOT ----SITE 3 ---- EOT ----SN 3 Site 1 BIN2 SN 3 Site 3 BIN1 SN 3 Site 2 BIN3 --- TSTART ---SITE 2 ---- TEST ----LOOP MAX SITE 5 SITE 3 ---- TEST ----Clear Summary SITE 1 ---- TEST ----1000 🚖 * ---- ONCE TEST ----I AM SITE 1 TIMER 0.00 mS.SITE 2 * 0 TIMER 0.00 mS,SITE 3 ---- TIMER 0.000000 ----I AM SITE 2 ---- TIMER 0.000000 ---- I AM SITE 3 RUN TP TIMER 100.00 mS,SITE 1 ---- TIMER 100.000000 ----I AM SITE 1 SITE 2 ---- FOT ----SITE 3 ---- EOT ----SITE 1 ---- EOT ----SN 6 Site 3 BIN5 SN 6 Site 1 BIN6 SN 6 Site 2 BIN4 • **OpenATE Inc.** The open solution for IC tester

Demo

Introduction to API

bool mts3_once();

• Sometimes for a multi-site application, a piece of code may need to be executed only once by one thread.

- Usage:
 - if (mts3_once()) {

// statements in this block will be executed only once by one thread.

• mts3_once() is also used to sync the execution among test threads.



Synchronizing





Sequence





- Open MTS3
- Open project "C:\OpenATE\MTS3\demo_projects\demo03once.mpj"
- Open TPBUILD < Utility \rightarrow TPBUILD >

Step2

You can press "Datalog" button to see more information.

Step3

- Increase the number of sites.
- Press "Exec" button to initialize.



Press "Tstart" button to run the test program once.

GLOBAL INIT TEST EOT PWD LIB

if(mts3_get_datalog())mts3_msg("SITE %d ---- TEST ----", mts3_getSite()); if(i>10) i=1;

mts3_start_timer();

if(mts3_once()){ mts3_msg(" ---- ONCE TEST ----I AM SITE %d", mts3_getSite()); MSleep(100);

if(mts3_get_debug())mts3_once(); mts3_msg(" ---- TIMER %f ----I AM SITE %d",mts3_get_timer(), mts3_getSite()); mts3_bin(i++);

> Statements in this block will be executed only once by one thread





Demo Project4

Step-by-step



Demo Project_4

GLOBAL INIT TEST EOT PWD LIB

MS

mt

mt

Demo

	mts3 - C:/OpenATE/MTS3/demo_projects/demo04seq.mpj — 🛛 🗙
<pre>mts3_get_datalog())mts3_msg("SITE %d TEST", mts3_getSite()); i>l0) i=l:</pre>	Project Run Setup Utility Apps Help
	🖄 🐟 🐴 🙉 🖒 🛸 🐼 EngineerMode
f(mts3 once())	
ts3 msg(" NO SEQI AM SITE %d", mts3 getSite());	
3 msg(" SYN TEST 1I AM SITE %d", mts3 getSite());	SITE 2 INIT
eep(1);	DEMO SEQ function
3 msg(" SYN TEST 2I AM SITE %d", mts3 getSite());	DEMO SEQ function
	SITE 1 INIT
3_msg(" SYN TEST 3I AM SITE %d", mts3_getSite());	SITE 3 INIT
eep(1);	
3_msg(" SYN TEST 4I AM SITE %d", mts3_getSite());	
eep(1);	
3_msg(" SYN TEST 5I AM SITE %d", mts3_getSite());	SYN TEST 1I AM SITE 2
	SITE 3 TEST
mts3_once())	SYN IEST 1I AM SITE 3
3_msg(" WITH SEQI AM SITE %d", mts3_getSite());	SYN TEST 2 I AM SITE 1
3_seq_begin();	SYN TEST 2I AM SITE 2
	SYN TEST 2 I AM SITE 3
3_msg(" SYN TEST 6I AM SITE %d", mts3_getSite());	SYN TEST 3I AM SITE 3 Before using SEQ
	SYN TEST 3 I AM SITE 2 function
<pre>is_msg(" SIN TEST /I AM SITE %d", mts3_getSite());</pre>	SYN LEST 3 IAM SITE 1
	SYN IEST 4 AM SITE 3
S_msg(~ SIN IESI &I AM SIIE &d~, mtss_getSIte());	SYN TEST 4 AM SITE 1
CTL ? ×	SYN TEST 5 I AM SITE 2
	SYN TEST 5I AM SITE 1
ACT BIN	WITH SEO I AM SITE 1
	SYN TEST 6I AM SITE 3
Active 2	SYN TEST 7 I AM SITE 3
3	SYN TEST 8 I AM SITE 3 After using SEQ
Active	SYN IEST 6 I AM SITE 1 function
Active 1	SYN IEST / AM SITE 1
	SYN TEST 6
	SYN TEST 7 I AM SITE 2
	SYN TEST 8 I AM SITE 2
	SILE 3 EOI
	SITE 1 EOT
	SITE 2 EOT
	SN 3 Site 2 BIN3
T Clear Summary	SN 3 Site 3 BIN1 SN 3 Site 4 BIN1
RUN TP	



Introduction to API

void mts3_seq_begin() / void mts3_seq_end();

• Sometimes for a multi-site application, a piece of code may not able to be executed concurrently by more than one thread at the same time.

• Usage:

mts3_seq_begin(); // ---- Point A
// statements in this block will be executed by one thread at a time.
mts3_seq_end(); // ---- Point B



Step4

Press "Tstart" button to run the test program once.

GLOBAL INIT TEST EOT PWD LIB

if(i>10) i=1;	area () / moso_mog(, moso_gees	Projec	et Run S	etup Util	ty App	s Help	🧥 - · · · · ·
//if(mts3 once(ii i				x	1		20 E	EngineerMode
//mts3 msg(" N	O SEQI AM SIT	E %d", mts3 getSite()							
mts3_msg("	- SYN TEST 1I	AM SITE %d", mts3 ge	tSite());	SITE	2 INIT				
MSleep(1);				DEM	IO SEQ fu	nction			
mts3_msg("	- SYN TEST 2I	AM SITE %d", mts3_ge	tSite());	DEM	IO SEQ fu	nction			
MSleep(1);				SITE	1 INIT				
mts3_msg("	- SYN TEST 3I	AM SITE %d", mts3_ge	tSite());	SILE	STADT				
MSleep(1);				SITE	1 TES	T T			
mts3_msg("	- SYN TEST 4I	AM SITE %d", mts3_get	tSite());	5	SYN TEST	1 I AM	SITE 1		
mbleep(1);	CVN TECT 5	AN STTE SAN STAR		SITE	2 TES	T T			
mess_msg(- SIN ILSI 5I	An SILE war, mess_get	usice());	\$	SYN TEST	1I AM	SITE 2		
if(mts3 once())				SITE	3 TES		OITE A	2	
mts3 msg(" WIT	H SEQI AM SIT	E %d", mts3 getSite());	3	SYN TEST	1 I AM	SITE 1		
mts3_seq_begin();				SYN TEST	2 AM	SITE 2		
				5	SYN TEST	2 I AM	SITE 3		
mts3_msg("	- SYN TEST 6I	AM SITE %d", mts3_ge	tSite());	9	SYN TEST	3 I AM	SITE 3	Ro	forousing
MSleep(1);				8	SYN TEST	3 I AM	SITE 2	De	iore using
mts3_msg("	- SYN TEST 7I	AM SITE %d", mts3_ge	tSite());	\$	SYN TEST	3 I AM	SITE 1		
MSleep(1);					SYN TEST	4 I AM	SITE 3	SE	O function
mts3_msg(- SIN IESI 6I	AM SILL 40", MCSS_get	csice());		SYN TEST	4 AM	SITE 1		d'interior
mono_bed_end(),				9	SYN TEST	5 I AM	SITE 3		
d CTL		?	×	\$	SYN TEST	5 I AM	SITE 2		
				5	SYN TEST	5I AM	SITE 1		
ACT	BIN			, WII	H SEQ	AM SITE	1 SITE 2		
1 Active	2				SYN TEST	7 I AM	SITE 3		
1 C Active				5	SYN TEST	8 I AM	SITE 3	A C	
2 🖌 Active	3			\$	SYN TEST	6 I AM	SITE 1	AT	ter using
	1			8	SYN TEST	7 I AM	SITE 1		0
3 Active				8	SYN TEST	8 I AM	SITE 1	CE	O function
				3	SYN TEST	6 I AM	SITE 2	SE	Q IUNCLIO
					SYN TEST	8 I AM	SITE 2		
				SILE	3 EU		ONL L		
				SITE	1 EO	·			
				SITE	2 EO	·			
LOOP			MAX SITE	SN 3	Site 2 Bl	N3			
	F	Clear Summary		SN 3	Site 1 BI	12			
1000 🜩			3	514.5	Site I DI	12			



Demo Project5

Step-by-step



Demo

GLOBAL INIT TEST EOT PWD LIE

if(mts3_get_datalog())mts3_msg("SITE %d ---- TEST ----", mts3_getSite()); if(i>10) i=1;

mts3_msg("SITE %d push STOP TO BREAK infinite loop ----", mts3_getSite());

while(1){
MSleep(10);
//if (mts3_get_debug())mts3_check_stop();
mts3_check_stop();

mts3 bin(i++);

mts3 - C:/OpenATE/MTS3/demo_projects/demo05chkstop.... — 🛛 🗙 👉 CTL \times ? Project Run Setup Utility Apps Help ACT BIN ▶ ﷺ 🙆 EngineerMode 9 × 0 1 🖌 Active --- TSTART ---. SITE 1 ---- TEST ----SITE 1 push STOP TO BREAK infinite loop ------- STOP ---SITE 1 ---- EOT ----LOOP MAX SITE Clear Summary 1000 🌲 -. RUN TP -Ð i e l



Introduction to API

void mts3_check_stop();

• In user's test program, add this function call in a infinite loop, so that system can interrupt the loop when user click 'stop'.

•while (1) { if (hardware_ready()) exit; }

- Here we put a call to mts3_check_stop() in the loop, so that user can hit stop button to stop the infinite loop:
 - while (1) {
 if (hardware_ready()) exit;
 mts3_check_stop();}



• Open MTS3

OpenATE Inc. The open solution for IC tester

Open project "C:\OpenATE\MTS3\demo_projects\demo05chkstop.mpj"

Step2

- Press "Exec" button to initialize.
- Press "Tstart" button to run the test program once.

GLOBAL INIT TEST EOT PWD LIB	
<pre>if(mts3_get_datalog())mts3_msg("SITE %d if(i>10) i=1;</pre>	TEST", mts3_getSite());
<pre>mts3_msg("SITE %d push STOP TO BREAK infi</pre>	nite loop",
<pre>while(1){ MSleep(10); //if (mts3_get_debug())mts3_check_stop(); mts3_check_stop(); }</pre>	
mts3_bin(i++);	infinite loop



Push STOP to break infinite loop





Demo Project6



Demo Project 6 GLOBAL INIT TEST EOT PWD LIB if(mts3 get datalog())mts3 msg("SITE %d ---- TEST ----", mts3 getSite()); if(i>10) i=1; Setup mts3 msg(" ---- TEST 1 ----I AM SITE %d, MAXSITE=%d ACTIVE SITES= %d ", mts3 getSite(), mts3 getMaxSite(), mts3 getNOS()); • Three sites mts3 bin(i++); mts3 - C:/OpenATE/MTS3/demo_projects/demo06maxsite.... d CTL \times ? \times Project Run Setup Utility Apps Help ACT BIN Max site = 39 EngineerMode 2 1 < Active 3 2 ✓ Active DEMO MAX/ACTIVE SITE -Active site = 3SITE 2 ---- INIT ----3 🖌 Active DEMO MAX/ACTIVE SITE DEMO MAX/ACTIVE SITE SITE 3 ---- INIT ----SITE 1 ---- INIT ------- TSTART ---SITE 3 ---- TEST -------- TEST 1 ---- I AM SITE 3, MAXSITE=3 ACTIVE SITES= 3 LOOP MAX SITE SITE 1 ---- TEST ----Б SITE 2 ---- TEST ----Clear Summary ---- TEST 1 ---- I AM SITE 1, MAXSITE=3 ACTIVE SITES= 3 1000 🚖 \$ ---- TEST 1 ---- I AM SITE 2, MAXSITE=3 ACTIVE SITES= 3 SITE 1 ---- EOT ----SITE 2 ---- EOT ----SITE 3 ---- EOT ----SN 6 Site 1 BIN2 RUN TP SN 6 Site 2 BIN3 SN 6 Site 3 BIN1 • **OpenATE Inc.**

The open solution for IC tester

GLOBAL INIT TEST FOT PWD LIB

if(mts3_get_datalog())mts3_msg("SITE %d ---- TEST ----", mts3_getSite());
if(i>10) i=1;

mts3_msg(" ---- TEST 1 ----I AM SITE %d,MAXSITE=%d ACTIVE SITES= %d ", mts3_getSite(), mts3_getMaxSite(), mts3_getNOS());

mts3_bin(i++);



- Setup
 - Three sites
 - · Deactivate third site
- Max site = 3

OpenATE Inc.

The open solution for IC tester

Active site = 2

Introduction to API

int mts3_getMaxSite();

· Return maximum sites available by system.

int mts3_getNOS();

· Return number of sites for current test configuration.



Reference

- OpenATE official web

 http://www.openate.com/
 mts3
- mts3_user.manual

