Tip of the Month :

• How find a problem yourself or report a problem if you can't ...

Finding a Problem Yourself

When to look at a log file:

- Configuration problems that prevent a server from
 - Starting
 - Running correctly
- Runtime problems that occur spontaneously
 - Crash
 - Client receives "access denied"
 - Synchronization problems
 - e.g. client suddenly stops receiving data, but the server is still running: was the clock set back?
 - etc.

Finding a Problem Yourself

• When to use runtime debug tools

- Application is running but not behaving properly
 - Constant or frequent link timeouts
 - High CPU load
 - Other specific link errors
 - o access denied
 - o illegal (something)
 - o etc.
- You're just curious what the application is doing ...

- fec.log (aka fec.log.0 in java)
 - Location determined by:
 - Environment variable "FEC_LOG" (1st)
 - Environment variable "FEC_HOME" (2nd)
 - Working directory (3rd)
 - Appended and rotated (fec.bak)
- cdi.log
 - Location determined by:
 - Environment variable "CDI_HOME" (1st)
 - Environment variable "FEC_HOME" (2nd)
 - Working directory (3rd)
 - Recreated at each startup

fec.log

- Configuration entries
- Commands (by default)
 - Property and caller (prior to dispatch)
 - Reasons for refusal (i.e. if 'access denied')
- Time synchronization information
- Alarm information
- History information
- Any 'user' added entries
 - via feclog() API

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02.03.11 11:52:46.678 CET[PetraExpS7P] : global synchronization : success	^
31.03.11 16:30:08.990 CEST[PetraExpS7P] : COMMAND (t8771)/openbs10_2 action called by P10USER from addr 131.169.66.217 : network refused access	
31.03.11 16:30:16.345 CEST[PetraExpS7P] : COMMAND (t8771)/openbs10_2 action called by P10USER from addr 131.169.66.217 : network refused access	
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31.03.11 16:35:04.083 CEST[PetraExpS7P] : COMMAND (t8771)/closebs10_2 action called by P10USER from addr 131.169.66.217 : network refused access	
31.03.11 16:35:35.140 CEST[PetraExpS7P] : COMMAND (t8771)/closebs10_2 action called by P10USER from addr 131.169.66.217 : network refused access	
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56.04.11 08:18:07.445 CDT[MAGSERV] COMMAND (DAO)/SF MR_LOOP_SOLL called by D2MAGNETS from 131.169.154.154	<u>~</u>
06.04.11 08:18:08.331 CDT[MAGSERV] COMMAND (DAO)/QD MR_LOOP_SOLL called by D2MAGNETS from 131.169.154.154	
06.04.11 08:18:08.332 CDT[MAGSERV] COMMAND (DAO)/QF MR_LOOP_SOLL called by D2MAGNETS from 131.169.154.154	
06.04.11 08:18:09.263 CDT[MAGSERV] COMMAND (DAO)/DI_DC MR_LOOP_SOLL called by D2MAGNETS from 131.169.154.154	
06.04.11 08:18:09.338 CDT[MAGSERV] COMMAND (DAO)/DI_AC MR_LOOP_SOLL called by D2MAGNETS from 131.169.154.154	-
06.04.11 11:41:20.439 CDT[MAGSERV] global synchronization offset : 1.29845e+09 sec	-
06.04.11.11:41:20.440.CDTIMAGSERVLargest correction : 0.100025.sec. (nr. corrections 1)	<u>~</u>
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cdi.log

- Configuration entries
- Bus/Hardware errors
- Some CDI link information
- Bus plug information

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09.03.11 08:24:33.049 CET : TWINCAT MotReg8.regPosi line 1 line index 100 (42.2->800:192:168:52:33:1:1:2) : cdi dev nr 201 on cdi bus #0	
09.03.11 08:24:33.049 CET : TWINCAT MotReg8.regStat line 1 line index 181 (42.2->800:192:168:52:33:1:1:0) : cdi dev nr 382 on cdi bus #0 09.03.11 08:24:33.049 CET : TWINCAT PortIng line 1 line index 20 (0.2->800:192:168:52:33:1:1) : cdi dev nr 21 on cdi bus #0	
09.03.11 08:24:33.049 CET : TWINCAT KL1408-ME line 1 line index 20 (0.2->800:192:168:52:33:1:1) : cdi dev ni 21 on cdi bus #0	
09.03.11 08:24:33.049 CET : TWINCAT PortOutp line 1 line index 22 (0.3->800:192:168:52:33:1:1) : cdi dev nr 23 on cdi bus #0	
09.03.11 08:24:33.049 CET : TWINCAT KL2408-ME line 1 line index 23 (100.1->800:192:168:52:33:1:1) : cdi dev nr 24 on cdi bus #0	
09.03.11 08:24:33.049 CET : TWINCAT Motor-ME line 1 line index 24 (200.1->800:192:168:52:33:1:1) : cdi dev nr 25 on cdi bus #0	
09.03.11 08:24:33.049 CET : read database file C:\tine\database\cdiaddr.csv : success	
09.03.11 08:24:33.049 CET : cdi is enabled to generate bus alarms on bus error	
09.03.11 08:24:33.049 CET : cdi library version : 1.00.0004	
09.03.11 08:24:33.065 CET : Twincat portParameters: 32781;800; == 192; 168; 52, 33, 1, 1	
09.03.11 08:24:33.118 CET : ADS reqHandleTime + rwTime (ms): 52	
09.03.11 08:24:33.118 CET : ADS reqHandleTime + rwTime + closeHandle (ms): 52	
09.03.11 08:24:35.897 CET : CDI export name : P3MST.CDI	
09.03.11 08:24:35.930 CET : CDI remote server initialized	
10.03.11 08:25:17.794 CET : ADS reqHandleTime + rwTime (ms): 78 10.03.11 08:25:17.794 CET : ADS regHandleTime + rwTime + closeHandle (ms): 78	
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22.03.11 14:26:56.026 CET : ADS reqHandleTime + rwTime + closeHandle (ms): 344	
28.03.11 11:28:52.747 CDT : ADS regHandleTime + rwTime (ms): 375	
28.03.11 11:28:52.747 CDT : ADS reqHandleTime + rwTime + closeHandle (ms): 375	
31.03.11 09:29:51.084 CDT : ADS reqHandleTime + rwTime (ms): 453	
31.03.11 09:29:51.084 CDT : ADS reqHandleTime + rwTime + closeHandle (ms): 453	~
For Help, press F1	

Runtime Debugging

- Use 'attachfec'
 - See users meeting from Sep 3, 2010
 (<u>http://adweb.desy.de/mcs/TINE_Users_Meeting/2010Sep_03/Release4News.pdf</u>)
 - Attaches to
 - FECS (normal case)
 - o attachfec P3MST.0
 - attaches via local pipe to FEC named P3MST.0 i.e. to a pipe named P3MST.0.ipc
 - o attachfec /PETRA/Scrapers
 - attaches via TCP to FEC process which is managing the server /PETRA/Scrapers
 - NOTE: Java servers must use this variant (or enter debug mode via the 'spider')

Attachfec

Input Comman	d :									Coreen Bu	uffer Size —				
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get ServerIdle - displays server cycle idle state set ServerIdle - sets server cycle idle state get globals - displays the current globals list get connections - displays the current connection list get connection(#) - displays the current system message table get BurstLimit - displays the current system message table set BurstLimit - sets Burst Limit to num packets input get CycleDelay - displays cycle Delay in msec set CycleDelay - sets Cycle Delay time get time - displays local time get tyresion - displays local time										tions					
get get get get get get set set set set set	users nets stats semaphores threads users nets filter filter debug = 0 debug = 1 debug = 2 debug = 3 debug = 4 logdbg = 0 logdbg = 0 logdbg = 1	- - - - - - - - - - - - - - - - - - -	displays WRJ displays WRJ displays ope displays cert displays the displays the displays the displays the displays the displays the debug sets debug sets debug sets debug turns debug turns debug	TE access TE access rational : rent sema ead prior : users wii : networks rent debu vert de	user list net list settings settings the status the with WRITE g output fil ter string off race RPC con race network race network race data ex ull diagnost ff	mission access ter string mands) (activity) (change) tic trace)		file							
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Attachfec

/DESY2/D2Beam Activity	
nput Command :	Screen Buffer Size
nelp < >	send 1000 lines
Help clients contracts connections stats modules time version	security C Off C 1 C 2 C 3 C 4
DP: [131.169.119.73:29471] L2MARCH -> D2BEQM #0 L2RFPowers 1000 msec (1 of 1)[TIMER] @08 ->D2BEQM #0 L2RFPowersIst 1000 msec (1 of 1)[TIMER] @08.04.11 10:47:27.00 ->D2BEQM #0 L2RFPowersSIst 1000 msec (1 of 1)[TIMER] @08.04.11 10:47:27.0 ->D2BEQM #0 L2RFPowersIm5 1000 msec (1 of 1)[TIMER] @08.04.11 10:47:27.0	
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<pre>] //ENSEQM/LINAC2[L2TRCrf] 168 value(s) @ 500 msec (CANCEL) (cbId: 0) //LINAC2/GLOBALS/#0[ParticleTypeText] 1 value(s) @ 1000 msec (CANCEL) (cbId: 3) //LINAC2/GLOBALS/#0[ParticleTypeText] 1 value(s) @ 1000 msec (CANCEL) (cbId: 3) //DESY2/IEVAC_IX/#0[DEVICES] 110 value(s) @ 1000 msec (CANCEL) (cbId: 4) //DESY2/IEVAC_IX/#0[DEVICES] 110 value(s) @ 1000 msec (CANCEL) (cbId: 5) //DESY2/IEVAC_TW/#0[DEVICES] 25 value(s) @ 1000 msec (CANCEL) (cbId: 6) //DESY2/CAS/D2Beam[REMOVEALARMS] 0 value(s) @ 1000 msec (CANCEL) (cbId: 6) //DESY2/CAS/D2Beam[REMOVEALARMS] 0 value(s) @ 1000 msec (CANCEL) (cbId: 6) //DESY2/CAS/D2Beam[REMOVEALARMS] 0 value(s) @ 1000 msec (CANCEL) (cbId: 7) //DESY2/CAS/D2Beam[REMOVEALARMS] 0 value(s) @ 1000 msec (CANCEL) (cbId: 3) //DESY2/CYCLER/[CyCleNumber] 1 value(s) @ 100 msec (CANCEL) (cbId: 3) - //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 1) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 3) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 4) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 5) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 6) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 6) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 1) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 1) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 1) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 11) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 23 value(s) @ 1000 msec (TIMER) (cbId: 11) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 6 value(s) @ 1000 msec (TIMER) (cbId: 13) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 6 value(s) @ 1000 msec (TIMER) (cbId: 13) - UP //LINAC2/L2.MODUL/#0[Sel_Sps_block] 6 value(s) @ 1000 msec (TIMER) (cbId: 14) - UP //LINAC2/L2.MODUL</pre>	

Attachfec

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<pre>System Cycle interval: 10 msec Contract tbl capacity: 1000 items Contract tbl capacity: 100 items Colient tbl capacity: 100 items Req ack. on change yes Retard cont. removal: yes Server Burst Limit : 1000 packets Burst Cycle Delay : 20 msec Server Packet MTU : 1472 bytes Server Packet MTU : 1472 bytes Server Packet MTU : 1472 bytes Server Send Buffers : 500000 bytes Server Reck Buffers : 500000 bytes Server Reck Buffers : 500000 bytes Server Reck Buffers : 250000 bytes Server Reck Buffers : 25000 bytes Server Reck Buffers : 25000 bytes Server Reck Buffers : 25000 bytes Server tasks : not re-entrant Server tasks : not re-entrant Server tasks : not re-entrant Server tasks : not re-entrant Server therad : Separate Server tasks : not re-entrant Server tasks : not separate Server tasks : not separate Server tasks : not separate Server tasks : no Server tasks : no Server tasks : no Server tasks : no Server tasks : separate Server tasks : no Server tasks : no Server tasks : no Server tasks : no Server tasks : separate : no Server tasks : no Server tasks : no Server tasks : no Server tasks : no Server ta</pre>	Contract Data Stale : O counts Delivery Stale : 1 counts	
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Attachfec (to a java server)

✓ /PETRA/Undulator Activ	vity					
get settings				< > send	Screen Buffer Size	lines
Help clients	contracts connections	statsmodules	time	version security	Debug Level	3 0 4
JVM cur. heap size : JVM cur. free memory : Server Settings : System Cycle interval: Min Polling interval : Req ack. on change : Retard cont. removal : Server Burst Limit : Contract renewal len : Burst Cycle Delay : Server Packet MTU : Server Packet MTU : Server Packet MTU : Server Recv Buffers : Client Settings : Connect. tbl capacity: Globals tbl capacity: Client Recv Buffers : use watchdog links :	532742144 75538432 11303168 10 msec 100 msec yes 1024 packets 60 items 1 msec 1472 bytes 65536 bytes 1024 items 25 items					
<u> </u>						~

attachfec ENS

🕮 acclxciens1 - default - SSH Secure Shell	
Eile Edit View Window Help	
Quick Connect i Profiles	
<pre>>UDP: [131.169.119.62:29215] D2FECSTATS -> ENSEQM DESY2 PiDisplayDeviceStates 0 msec (1 of 1)[SINGLE] @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates <8>(236 b 1 of 1) to D2FECSTATS (+1) @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates <8>(236 b 1 of 1) to D2FECSTATS (+1) @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates <8>(236 b 1 of 1) to D2SPYFEC (+1) @08.04.11 10:53:56.000 CDT >UDP: [131.169.119.62:31775] D2SPYFEC -> ENSEQM DESY2 PiDisplayDeviceStates 0 msec (1 of 1)[SINGLE] @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates <8>(236 b 1 of 1) to D2FECSTATS (+1) @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >[349] (ENSEQM) DESY2 PiDisplayDeviceStates <8>(236 b 1 of 1) to D2FECSTATS (+1) @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates in context DESY2 @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates (8>(236 b 1 of 1) to D2SPYFEC (+1) @08.04.11 10:53:56.000 CDT >ENS: addr request for srv PiDisplayDeviceStates (8>(236 b 1 of 1) to D2SPYFEC (+1) @08.04.11 10:53:56.000 CDT >ENS: addr request for</pre>	
>[349] (ENSEQM) DESY2 PiDisplayDeviceStates <8>(236 b 1 of 1) to D2SPYFEC (+1) @08.04.11 10:53:56.000 CDT	
>Debug level 0	_
PiDisplayDeviceStates seems to no longer exist !	
Connected to acclxciens1 Restart D2FECSTATS, D2SPYFEC fixed the problem !	

Fix both D2FECSTATS and D2SPYFEC to remove entries that become 'non existent' !

attachfec ENS

acclxciens1 - default - SSH Secure Shell	
<u>Eile Edit View Window H</u> elp	
Vuick Connect 🧰 Profiles	
>UDP: [131.169.121.187:33311] PETRACON -> ENSEQM PETRA VAC.TSP 500 msec (1 of 1)[SINGLE] @08.04.11 11:04:45.000 CDT	^
>ENS: addr request for srv VAC.TSP in context PETRA @08.04.11 11:04:45.000 CDT	
>ENS: return info for srv VAC.TSP @08.04.11 11:04:45.000 CDT	
>[349] (ENSEQM) PETRA VAC.TSP <0>(212 b 1 of 1) to PETRACON (+1) @08.04.11 11:04:45.000 CDT	
>UDP: [131.169.121.187:33311] PETRACON -> ENSEQM PETRA VAC.TSP 500 msec (1 of 1)[SINGLE] @08.04.11 11:04:45.000 CDT	
>ENS: addr request for srv VAC.TSP in context PETRA 008.04.11 11:04:45.000 CDT	
>ENS: return info for srv VAC.TSP 008.04.11 11:04:45.000 CDT	
>[349] (ENSEQM) PETRA VAC.TSP <0>(212 b 1 of 1) to PETRACON (+1) @08.04.11 11:04:45.000 CDT	
>UDP: [131.169.121.187:33311] PETRACON -> ENSEOM PETRA VAC.TSP 500 msec (1 of 1)[SINGLE] @08.04.11 11:04:45.000 CDT	
>ENS: addr request for srv VAC.TSP in context PETRA @08.04.11 11:04:45.000 CDT	
>ENS: return info for srv VAC.TSP @08.04.11 11:04:45.000 CDT	
>[349] (ENSEQM) PETRA VAC.TSP <0>(212 b 1 of 1) to PETRACON (+1) @08.04.11 11:04:45.000 CDT	
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>ENS: addr request for srv VAC.TSP in context PETRA @08.04.11 11:04:45.000 CDT	
>ENS: return info for srv VAC.TSP @08.04.11 11:04:45.000 CDT	
>[349] (ENSEQM) PETRA VAC.TSP <0>(212 b 1 of 1) to PETRACON (+1) @08.04.11 11:04:45.000 CDT	
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>ENS: addr request for srv VAC.TSP in context PETRA @08.04.11 11:04:45.000 CDT	
>ENS: return info for srv VAC.TSP @08.04.11 11:04:45.000 CDT	
>[349] (ENSEQM) PETRA VAC.TSP <0>(212 b 1 of 1) to PETRACON (+1) @08.04.11 11:04:45.000 CDT	
q>UDP: [131.169.213.39:30495] NAGIOS -> ENSEQM HASYLAB PiPrivCond_PetraExpS2P 0 msec (1 of 1)[SINGLE] @08.04.11 11:04:46.000 CDT	
>ENS: addr request for srv PiPrivCond_PetraExpS2P in context HASYLAB @08.04.11 11:04:46.000 CDT	
>ENS: return info for srv PiPrivCond_PetraExpS2P @08.04.11 11:04:46.000 CDT	~
Connected to acclxciens1 55H2 - blowfish-cbc - hmac-md5 - none 136x23 🥁 👘 👘	

Now much 'quieter', but what's going on with address requests for VAC.TSP ? (comes in sporadic blocks -> script?)

How to Report a problem

- First step: Look at tineforum.desy.de and/or tinetracker.desy.de to see if others have reported the same problem !
- Questions -> use tineforum.desy.de !
 - e.g. "how do I get a single value from an array property?"
 - e.g. "how to I configure my server to ...?"
- Bug/Error Reports -> use tinetracker.desy.de !
 - Be as specific as possible in identifying the problem
 - Include steps to reproduce it.
 - Indicate the platform and versions used.
- If you must: send an email to <u>tine@desy.de</u>
 - this will be sent to several people who might be able to help !

How to Report a Problem

- Avoid reports that say something like:
 - "I can't communicate with any TINE servers! What am I doing wrong?"
 - => Problem not specifically described!
 - "TINE doesn't work any more! It worked yesterday. What has changed?"
 - => Obviously not true in general!
- Imagine trying to answer your own questions yourself.
 - Avoid a long, iterative dialog with someone trying to determine what the specific problem is ...
 - Is it a client problem or a server problem?
 - Is it a specific client application or a specific server?
 - Is the application written in java, C, LabView, VB, .NET ?
 - What exactly are the symptoms?
 - Is it always reproducible?
 - etc.