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How to patch GPSR routing protocol to ns-2.34							
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03-15-2012, 06:00 AM

#31

mdkhasawneh

Dear knudfl im totaly new to NS2

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LQ Newbie

Registered: Mar 2012
Posts: 12Rep: 

for this reason i post the tcl to get help in modifying the file to run NAM.
can you tell me what to do?

 03-15-2012, 11:37 AM

#32

muaz.sh

LQ Newbie

Registered: Mar 2012
Posts: 8Rep: 

@27 this message refers that you have successfully integrated the GPSR implementation with ns2. in order to run nam animation, wireless-gpsr.tcl puts the traces files in the same folder, these files are trace.tr and nam.out.tr, so if you need to run the animation of this file you need to use the terminal and execute this command:
nam nam.out.tr

 03-15-2012, 11:48 AM

#33

mdkhasawneh

LQ Newbie

Registered: Mar 2012
Posts: 12Rep: 

Dear muaz.sh after execute this command:
nam nam.out.tr

and by play the nam i get this in terminal and nothing at nam

Last edited by mdkhasawneh; 03-15-2012 at 12:10 PM.

 03-15-2012, 11:58 AM

#34

muaz.sh

LQ Newbie

Registered: Mar 2012
Posts: 8Rep: 

are you sure you did not modify the wireless-gpsr.tcl or any other file?

 03-15-2012, 12:11 PM

#35

mdkhasawneh

LQ Newbie

Registered: Mar 2012
Posts: 12

Dear muaz.sh i just modify wireless-gpsr.tcl according to post #17
can you send me the correct wireless-gpsr.tcl for runing the nam?

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Rep:  03-16-2012, 03:46 AM

#36

muaz.sh

LQ Newbie

Registered: Mar 2012

Posts: 8

Rep: 

Dear mdkhasawneh,

nam is just an another program like ns, so if you need to run it you must call it from shell: `nam <nam trace file>`, or you can run it from within tcl script by this command: `exec nam <nam trace file>`

 03-16-2012, 10:06 AM

#37

muaz.sh

LQ Newbie

Registered: Mar 2012

Posts: 8

Rep: 

In order to surpass the problem of "node X is not defined" you need to add this loop after the definition of the nodes i.e after `if { $opt(sc) == "" } statement:`

```
for {set i 0} {$i < $opt(nn) } {incr i} {
  $ns_ initial_node_pos $node_($i) 10
}
```

where

\$ns_ initial_node_pos node size

command defines the node initial position in nam. <size> denotes the size of node in nam. This function must be called after mobility model has been defined.

 03-18-2012, 06:19 PM

#38

Menik

LQ Newbie

Registered: Feb 2012

Posts: 10

Rep: 

Hi nimacasino,

Could you please let me know how did you fix GPSR for NS2.34 ?

I am also referring the link. However, thanking you if you can explain it in steps.

Thanks in advance !

 03-18-2012, 10:40 PM

#39

Menik

LQ Newbie


Registered: Feb 2012

Posts: 10

HI Mauz.sh,

Are the steps mentioned in #16 are valid for NS2.35 as well ?

I am getting an error when i type "ns wireless-gpsr.tcl". Any help ?

Rep:  03-19-2012, 07:39 AM


#40

mdkhasawneh

LQ Newbie

Registered: Mar 2012

Posts: 12

Rep: 

Hello i run GPSR Successfully from Keliu GPSR implementation.
when i run `nam nam.out.tr` i can see the radio range for nodes and transmission
but the nodes are static and not moving. is this ok or nodes can be moving
also.

i have another problem in understanding the trace file format from `nam.out.tr` to
represent the result in graph.

it look different from the trace file format at

<http://www.cs.binghamton.edu/~kliu/r...ode/index.html>

i will attache some data from `nam.out.tr` and please if anyone can understand
the format explain for me.

Code:

```

r -t 0.060020077 -s 30 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
r -t 0.060020077 -s 21 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
r -t 0.060020104 -s 11 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
r -t 0.060020104 -s 31 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
r -t 0.060020143 -s 0 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
r -t 0.060020143 -s 40 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
r -t 0.060020143 -s 22 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 13 -k
+ -t 0.068286028 -s 40 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
- -t 0.068286028 -s 40 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
h -t 0.068286028 -s 40 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482095 -s 30 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482095 -s 50 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482095 -s 41 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482123 -s 31 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482123 -s 51 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482162 -s 20 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482162 -s 60 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
r -t 0.069482162 -s 42 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 14 -k
+ -t 0.088690801 -s 58 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 15 -k
- -t 0.088690801 -s 58 -d -1 -p gpsr -e 29 -c 2 -a 0 -i 15 -k

```

where the format at <http://www.cs.binghamton.edu/~kliu/r...ode/index.html>

look like

Code:

```

s 76.000000000 _98_ AGT --- 1812 cbr 32 [0 0 0 0] ----- [9
r 0.010176954 _9_ RTR --- 1 gpsr 29 [0 ffffffff 8 800] -----

```

Last edited by mdkhasawneh; 03-19-2012 at 07:40 AM. Reason: more info

03-19-2012, 03:42 PM

#41

Menik
LQ Newbie

Hi
When I run the same code with modifications ia m getting a run time error.
mdkhasawneh, which NS2 version you are running and on which platform ?

Registered: Feb 2012
Posts: 10

Rep: 

Thanks in advance.

I am getting below runtime error for ns wireless-gpsr.tcl

```
* glibc detected * ns: free(): invalid next size (fast): 0x08ede2f0 ***
===== Backtrace: =====
/lib/libc.so.6[0x5646c5]
/lib/libc.so.6(cfree+0x59)[0x564b09]
/lib/libc.so.6[0x51bf12]
/lib/libc.so.6[0x51ac83]
/lib/libc.so.6(setlocale+0x178)[0x51a688]
ns[0x84d63ff]
ns[0x8464965]
ns(Tcl_FindExecutable+0x17)[0x84600d7]
ns(Tcl_Main+0x32)[0x84942e2]
ns(nslibmain+0x20)[0x8413de2]
ns(main+0x22)[0x8413e3e]
/lib/libc.so.6(__libc_start_main+0xdc)[0x510e9c]
ns(__gxx_personality_v0+0x37d)[0x819b8b1]
===== Memory map: =====
00200000-00201000 r-xp 00200000 00:00 0 [vdso]
004c6000-004d1000 r-xp 00000000 fd:00 3209017 /lib/libgcc_s-4.1.2-
20080825.so.1
004d1000-004d2000 rwxp 0000a000 fd:00 3209017
```

 03-22-2012, 11:12 AM

#42

PRINCY
LQ Newbie

Hi,

Registered: Mar 2012
Posts: 1

I have patched the Ke Liu's GPSR implementation in NS-2.34 ..but the nodes are not moving in nam....can any one help me ?

Rep: 

 03-25-2012, 07:25 AM

#43

Menik
LQ Newbie

Hi All,

Can anyone please explain how to get x, y coordinates on C++ code ?

Registered: Feb 2012
Posts: 10

If anyone could please let me know a place I can find at least an example.

Rep: 


Thanks

 03-27-2012, 04:24 PM

#44

Menik
LQ Newbie

Registered: Feb 2012
Posts: 10

Rep: 

Hi All,
If anyone who is familier with the GPSR protocol and if you know how they print the X Y coordinates please explain how they have done it.
I know it uses MobileNode.h header and call functions in that class.
But from where do we pass the nodes to the C++ class ?
Because most of the wireless examples (e.g. AODV), we define the adhoc routing protocol when configure the node.


Please help me.
Thanks,

 04-03-2012, 12:46 AM

#45

Menik
LQ Newbie

Registered: Feb 2012
Posts: 10

Rep: 

HI All,
Is there anyone who is working on WSN. I have some questions tobe clarified.
Please send me an email to menikt@gmail.com and we can have a discussion.
Thanks

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