It would be useful if the `UNITTEST` code was put into their own files:

```
suricata-1.4.6/src root# ls -al unit*.c
-rw-r--r--  1 root  root   15695 Nov  3 23:54 unit-test-decode-icmp4.c
-rw-r--r--  1 root  root   46984 Nov  3 23:34 unit-test-decode-ipv4.c
-rw-r--r--  1 root  root  223181 Nov  3 23:17 unit-test-detect.c
-rw-r--r--  1 root  root  136477 Nov  3 23:07 unit-test-stream-tcp.c
```

and then the `Makefile.in` is updated to reference it:

```
# diff -u ../../../suricata-1.4.6.orig/src/Makefile.in Makefile.in
--- ../../../suricata-1.4.6.orig/src/Makefile.in Tue Sep 24 20:28:49 2013
+++ Makefile.in Sun Nov  3 23:56:13 2013
@@ -225,6 +225,8 @@
  tmqh-simple.h  tm-queuehandlers.c  tm-queuehandlers.h  
  tm-queues.c  tm-queues.h  tm-threads.c  tm-threads.h  
  tm-threads-common.h  unix-manager.c  unix-manager.h  
+  unit-test-decode-icmp4.c  
+  unit-test-decode-ipv4.c  unit-test-detect.c  unit-test-stream-tcp.c  
  util-action.c  util-action.h  util-atomic.c  util-atomic.h  
  util-bloomfilter-counting.c  util-bloomfilter-counting.h  
  util-bloomfilter.c  util-bloomfilter.h  util-buffer.c  
@@ -392,6 +394,8 @@
  tmqh-packetpool.$(OBJEXT)  tmqh-ringbuffer.$(OBJEXT)  
  tmqh-simple.$(OBJEXT)  tm-queuehandlers.$(OBJEXT)  
  tm-queues.$(OBJEXT)  tm-threads.$(OBJEXT)  
+  unit-test-decode-icmp4.$(OBJEXT)  unit-test-decode-ipv4.$(OBJEXT)  
+  unit-test-detect.$(OBJEXT)  unit-test-stream-tcp.$(OBJEXT)  
  unix-manager.$(OBJEXT)  util-action.$(OBJEXT)  
  util-atomic.$(OBJEXT)  util-bloomfilter-counting.$(OBJEXT)  
  util-bloomfilter.$(OBJEXT)  util-buffer.$(OBJEXT)  
@@ -773,6 +777,8 @@
  tmqh-simple.h  tm-queuehandlers.c  tm-queuehandlers.h  
  tm-queues.c  tm-queues.h  tm-threads.c  tm-threads.h  
  tm-threads-common.h  unix-manager.c  unix-manager.h  
+  unit-test-decode-icmp4.c  unit-test-decode-ipv4.c  
+  unit-test-detect.c  unit-test-stream-tcp.c  
  util-action.c  util-action.h  util-atomic.c  util-atomic.h  
  util-bloomfilter-counting.c  util-bloomfilter-counting.h  
  util-bloomfilter.c  util-bloomfilter.h  util-buffer.c  
@@ -1179,6 +1185,10 @@
 @AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/tmqh-packetpool.Po@am__quote@  
 @AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/tmqh-ringbuffer.Po@am__quote@  
 @AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/tmqh-simple.Po@am__quote@  
+@AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/unit-test-decode-icmp4.Po@am__quote@  
+@AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/unit-test-decode-ipv4.Po@am__quote@  
+@AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/unit-test-detect.Po@am__quote@  
+@AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/unit-test-stream-tcp.Po@am__quote@  
@AMDEP_TRUE@include@ @am__quote@/$(DEPDIR)/unix-manager.Po@am__quote@
```

07/16/2022
It makes the actual code much easier to work with (greps are shorter etc) and you can see which files you don't need to immediately update when doing changes.

It's a preference of mine so I've listed it as a feature.

Thanks.

Related issues:
Related to Task #2975: convert unitests to new FAIL/PASS API  Assigned
Blocked by Task #3166: src code file reorg  In Review

History
#1 - 11/14/2013 05:24 AM - Victor Julien  
- Target version set to 3.0RC2

Will consider this for 2.1. I've always wanted the tests to stay close to the code they test, but I agree things are a bit out of control. Also, testing code coverage with gcov is hampered by mixing in the tests.

I think I would prefer a scheme like decode-ipv4-unittests.c

#2 - 11/05/2014 04:50 AM - Victor Julien  
- Target version changed from 3.0RC2 to 70

#3 - 01/01/2016 06:11 PM - Andreas Herz  
- Assignee set to OISF Dev

#4 - 05/07/2019 06:44 PM - Victor Julien  
- Subject changed from 1.4.6: seperate #ifdef UNITTEST code into their own files to seperate #ifdef UNITTEST code into their own files

#5 - 09/23/2019 09:53 PM - Andreas Herz  
- Target version changed from 70 to TBD

#6 - 09/24/2019 10:15 AM - Victor Julien  
- Target version changed from TBD to 70

#7 - 11/24/2019 07:53 AM - Victor Julien  
- Blocked by Task #3166: src code file reorg added

#8 - 11/24/2019 07:54 AM - Victor Julien  
- Related to Task #2975: convert unitests to new FAIL/PASS API added

#9 - 08/07/2020 01:55 PM - Victor Julien  
- Target version changed from 70 to TBD