finals-2022-singleeventupset

@vito created this private channel on October 3rd. This is the very beginning of the finals-2022-singleeventupset channel.

Add description Add people Send emails to channel

Monday, October 3rd



vito 3:45 PM

joined finals-2022-singleeventupset along with 10 others.

Friday, October 7th



vito 1:14 PM

Welcome to Hack-A-Sat 3 Finals chat!

- 1. These guidelines do not supersede the official rules; they're here to make chatting in Slack useful and productive for all of us.
- 2. The goals of these channels are to address hardware, infrastructure, and other gameplay issues.
- 3. You should have access to both finals-2022 and #finals-2022-TEAMNAME. Please let Mission Control know if you don't! Do that now!
- All finals-2022 and #finals-2022-TEAMNAME conversations will be made public after the game ends. Don't chat anything you wish to keep private. Don't chat personally identifiable information.
- 5. Please be thoughtful with which team members engage in communication with organizers. While we don't want your team to miss important details due to someone taking a break or being busy, we also don't want to spend a bunch of time getting confused or de-conflicting what more people want.
- 6. That said, it's totally okay to have your whole team in both the finals-2022 and #finals-2022-TEAMNAME rooms reading.
- Sending private or direct messages to a game operator will make it more difficult for operators and other members of your team to know what's going on. Please don't.
- 8. Both finals-2022 and #finals-2022-TEAMNAME can be used for official communication through the end of Hack-A-Sat finals. shout@hackasat.com is also still available for official communication.
- Please review the contest rules and keep an eye out for updates at https://www.hackasat.com/





Thursday, October 13th

Carolyn Drerup 4:45 PM

was added to finals-2022-singleeventupset by j0nam1el, along with Irsyad Hanif. Also, Brandon Sanders joined.



j0nam1el 5:15 PM

Seeding integer = 1553 please





Last reply 21 days agoView thread

Friday, October 14th



Carolyn Drerup 10:48 AM

left finals-2022-singleeventupset. Also, GtB joined.

Monday, October 17th



j0nam1el 8:52 AM

Hi folks, is our team's Cesium instance performing okay from your view? From ours, it's slow/stopped



spaceymcspaceface 9:01 AM

Taking a look





Ratman 0:11 AM

was added to finals-2022-singleeventupset by vito.



spaceymcspaceface 9:40 AM

Confirmed the slow behavior on our side. Getting a frame every 4-10 seconds.



i0nam1el 9:41 AM

no problem, thanks! we (obviously) don't need it for anything right now ... just wanted to report early in case any remediation is needed before the actual competition.



spaceymcspaceface 9:45 AM

Ok glad it's not causing an impact right now, thanks for letting us know! I've brought it to the rest of the team's attention.



j0nam1el 9:45 AM many thanks!

9:48

in case additional data helps your team, here's some weekend commentary from one of our team members:

Cesium seems to just slow to a crawl after the sim has been running for a little while - it eats up over 1.5 GB of RAM and the frame rate crashes to frames per minute or frames per hour. It seemed to work just fine right after they restarted yesterday, but I think it gets overwhelmed with data pretty quickly - maybe they should only keep a certain amount of history?



safemode 10:20 AM

<u>@j0nam1el</u> Hey a couple more questions. Are you running Cesium natively on you host (with or without GPU) or inside a virtual machine?



j0nam1el 10:24 AM

On my setup, Cesium is running natively on physical machine

OS Name Microsoft Windows 10 Enterprise

Version 10.0.19043 Build 19043

ProcessorIntel(R) Core(TM) i7-10700 CPU @ 2.90GHz, 2904 Mhz, 8 Core(s), 16 Logical Processor(s)

Firefox 102.3.0esr (64-bit)

I'll ask my teammate for details on his setup



realmadsci 10:26 AM

was added to finals-2022-singleeventupset by j0nam1el.



realmadsci 10:28 AM

My setup is almost identical. Also using Firefox because all the chrome based browsers can only set a system-wide proxy.

10:29

It ran great right after the fresh restart on Saturday



safemode 11:22 AM

Hey guys. Thanks for the information. We are looking at updates to improve performance for finals. Another thing to note, internally we say much better performance on Chromium based browsers (Edge, Chrome, etc), and didn't see very much lag after initial data loading (a few minutes) even when connecting over proxy to AWS hosted Cesium instances



j0nam1el 11:22 AM Thank you!



realmadsci 12:05 PM

I got things to run more smoothly using Chrome. But our satellite drops off the visualization at 1/1/2022 18:45:02 so I can't set it to the current game time. It's track ends there and the satellite "vanishes", but cosmos is still giving telemetry from it.



Cydonia 12:31 PM

@realmadsci we're looking into this as well. thanks for the feedback on this



ST7 3:01 PM

was added to finals-2022-singleeventupset by vito, along with 2 others. **Tuesday, October 18th**



realmadsci 1:18 PM

I broke our COSMOS instance by trying to make a group in the "Autonomic" page. It is now busy looping and dumping a constant stream of log errors, and basic UI database queries



are timing out and breaking things. Can we get a restart/reset?



safemode 2:29 PM

yup



safemode 2:56 PM

Will be back online in 5 minutes or so



Wednesday, October 19th



biared 9:33 At

was added to finals-2022-singleeventupset by j0nam1el.



realmadsci 9:52 AN

I'm having trouble getting the satellite to power off the reaction wheels. The power off command is sent but they still show power consumed in grafana, EPS DEVICE, and they affect the battery as if they are on. I'll keep trying things to see if I can figure it out. In the meantime, I sent a CFE ES RESET command to see if that would fix the wheels, and instead the satellite went offline permanently.





ealmadsci im looking at the reaction wheel thing now and will let u know in a bit



realmadsci 12:18 PM

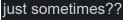
If it helps debug any, I've also noticed that sometimes when I turn the star tracker off and then back on it doesn't appear to consume power. I'm not complaining about that one





Cydonia 12:19 PM ill check that too







realmadsci 12:21 PM

Seems like almost always, but I didn't pay as much attention to that one as I did to the wheels staying powered

12:22

lirc, it says the star tracker is on in the eps_housekeeping message, and it functions to orient the satellite, it just doesn't show power consumption.

2:22

The wheels seem to be doing the opposite. They're off but they use power anyway.



Cydonia 12:24 PM

If you turn off the reaction wheel and send it commands, it doesnt work right?



realmadsci 12:36 PM

I never actually tried that



36 replies

Last reply 14 days agoView thread



realmadsci 12:51 PM

I can't check at the moment, because our satellite is bricked because the CFE_ES RESET command took it down and it never came back up as far as I can tell



RootLocus 2:22 PM

was added to finals-2022-singleeventupset by OB1, along with Joe B.

Thursday, October 20th



safemode 1:32 AM

Did you guys get reset?



realmadsci 9:29 AM

No



safemode 9:33 AM

doing it now

9:33





safemode 11:50 AM done sorry for delay

Friday, October 21st



j0nam1el 9:11 PM confirming receipt, thanks



Deadwood 9:43 PM Thanks

Saturday, October 22nd



meenmachine 10:55 AM

Here's your team container access credentials! Please verify you have access the game infrastructure from your AWS container after game start (5 minutes)

Zip

singleevent.zip Zip



EJ 11:23 AM

was added to finals-2022-singleeventupset by ST7. Also, Aaron Cannon and Cory Fowler joined.



j0nam1el 4:56 PM

Hi folks, are the red/green columns on the dashboard mixed up for Wheel Speed and Downlink? They don't seem to match the Journal

2 files



vito 4:57 PM lookin'



j0nam1el 4:58 PM (not critical, but thanks)



spaceymcspaceface 5:30 PM following up on this



j0nam1el 5:42 PM same status:

2 files



safemode 5:42 PM
we are still trying to track it donw



j0nam1el 5:42 PM





safemode 5:43 PM

the data source on the left is the correct one to go by until we let you know more



j0nam1el 8:22 PM

we'd like to request sat radio setting reset, if possible. with these values:

Network Mode

NETWORK_CHANNEL: 6
CONSTELLATION: BPSK

SPS: 12 FEC: 4

ACCESS_BYTES: 0xF734 <--new

RADIO PASSWORD: numerous-nerd



Cydonia 8:25 PM

yep just to clarify - we will do a reboot as part of this



j0nam1el 8:26 PM

is there an option to avoid a reboot? we're trying to keep the exposure data on our sat.



Cydonia 8:27 PM

we're only doing this as part of a reboot



j0nam1el 8:27 PM

but if no option, then we'll accept a reboot



Cydonia 8:28 PM

ok just a second executing this now



rebooting you now

ok @j0nam1el im going to verify back to you the settings that I set

ठ.२२

Access Code 0xf734

SPS: 12 FEC: 4 Channel: 6

Constellation: BPSK

thank you for pointing out the changed parameter

that was helpful



j0nam1el 8:33 PM



thanks!



Cydonia

hey im really sorry, i think you just got reset, and id like to verify that you did not do this and reset you back to requested settings immediately



j0nam1el 9:00 PM

we did not reset ourselves. just attempting to get telemetry back



Cydonia 9:00 PM

ok let me fix your settings

ok let me verify your settings back to you

again sorry about that



j0nam1el 9:01 PM





Cydonia 9:01 PM

FEC: 4

SPS: 12 CONSTELLATION: BPSK CHAN ID: 6 ACCESS 0xf734 sorry again j0nam1el 9:02 PM looks good, thanks! in case we somehow caused that badness, our previous action was sending KIT TO/ENABLE TELEMETRY with IP of the web side of COSMOS (10.23.223.13), in attempt to restore telemetry (which was sporadic at best for the previous hour+) we'd like to request sat radio setting reset, if possible. with these values: Network Mode NETWORK_CHANNEL: 6 CONSTELLATION: BPSK SPS: 12 FEC: 4 ACCESS_BYTES: 0xF834 <--new RADIO_PASSWORD: mental-mail-teach-tongue <--new safemode 11:08 PM give us a couple Cydonia 11:11 PM im getting ready to do this just a sec ok you should be reset im going to verify the settings back to you

ACCESS 0xF834

CHANNEL 6

CONSTELLATION BPSK

FEC 4

SPS 12



j0nam1el 11:19 PM looks good, thanks!



I almost tried to reset jonamiel sat and then I realized that is not what your satellite is



called



j0nam1el 11:19 PM

lack of sleep will do that haha



Sunday, October 23rd



j0nam1el 12:19 Al

hi folks, should this service produce a prompt?

singleevent@production-test:~\$ nc 10.23.223.25 13100

this service responded throughout the day today, but now we're seeing it hang





spaceymcspaceface 12:21 AM

We're taking a look



j0nam1el 12:27 AM appears back up



j0nam1el 9:42 AM

we'd like to request sat radio setting reset, if possible. with these values:

Network Mode NETWORK_CHANNEL: 6 CONSTELLATION: BPSK SPS: 12 FEC: 4 ACCESS BYTES: 0xF844 RADIO_PASSWORD: red-game-terrible-land Cydonia 9:45 AM ok cool



ill make sure to reset singleevent_sat and not j@namel_sat



so we arent changing passwords right now, if you think your password has been compromised let us know

<--new

<--new

you should be reset

verifying this now



j0nam1el 9:50 AM

it was a defensive measure, so password change not required, thanks!



Cydonia 9:51 AM

ok you should be set to

CONSTELLATION: BPSK

SPS 12 FEC 4

ACCESS BYTES: 0xF844

CHANNEL 6



j0nam1el

FYI, we had 3 exposures as of last evening, but could never pull them down. eventually we had to ask for a radio reset, so i'm pretty sure we lost them



Cydonia 10:55 AM

did you see them in the house keeping packet



j0nam1el 10:58 AM

yes, the housekeeping packet told us that we had missions 7, 10, 12 with valid exposures image.png



can you explain to me how you tried to score



j0nam1el 11:02 AN

Sure, here is the steps we took:

- 1. Switch to science networking to get mission data
- 2. Pull down mission data from the satellite
- 3. Align the telescope with say jupiter for mission 7 for the exposure window withing the mission time frame

At this point the exposure field in housekeeping populated but to our understanding other teams were preventing us from requesting the exposure data from our satellite. Additionally after requesting a radio update our housekeeping seems to have reset.



Cydonia 11:03 AM

ok cool so you completed the exposure but you did not complete the scoring steps before you got reset. correct?



j0nam1el 11:04 AM correct

separately, is nc 10.23.223.25 13100 working as intended?



Cydonia 11:06 AM

ok since you didnt finish the mission scoring steps before reset you wont be awarded any points but thanks for walking us through what you did.



i0nam1el 11:06 AM

no worries, that's what we figured. thanks!



Cydonia 11:06 AM

we think 10.23.223.25:13100 is working correctly - are you experiencing trouble in the last 10m



i0nam1el 11:07 AM

yes, our team is experiencing sporadic success. most attempts hang. a few recent attempts succees.



Cydonia 11:07 AM ok we see it too



Deadwood 11:13 AM

bounced it.



i0nam1el 11:10 AM

thanks. how soon should we expect it to be back up?



Deadwood 11:21 AM

actively working it. It is being hammered.





i0nam1el 11:32 AM

we'd like to request sat radio setting reset, if possible. with these values:

Network Mode

NETWORK_CHANNEL: 6
CONSTELLATION: BPSK

SPS: 12 FEC: 4

ACCESS_BYTES: 0xF854 <--new





spaceymcspaceface 11:44 AM

sorry guys mission control is trying to keep up

jumping on yours now



spaceymcspaceface 11:59 AM

OK radio is reset with this parametersNETWORK CHANNEL: 6

CONSTELLATION: BPSK

SPS: 12 FEC: 4

ACCESS BYTES: 0xF854 <--new





j0nam1el 12:10 PM

i'm sure you're aware, but 10.23.223.25 13100 appears to be sporadic again





Deadwood 12:11 PM

bounced



i0nam1el 1:26 PM

we'd like to request sat radio setting reset, if possible. with these values:

Network Mode

NETWORK_CHANNEL: 6

11-11

CONSTELLATION: BPSK SPS: 12 FEC: 4 ACCESS_BYTES: 0xe454 <--new spaceymcspaceface 1:32 PM Acknowledged, dispatching space radio crew spaceymcspaceface 1:37 PM Your FSW has been rebooted and radio settings are now **NETWORK CHANNEL: 6** CONSTELLATION: BPSK SPS: 12 FEC: 4 ACCESS BYTES: 0xe454 <--new j0nam1el 2:55 PM we'd like to request sat radio setting reset, if possible. with these values: Network Mode NETWORK_CHANNEL: 6 CONSTELLATION: BPSK SPS: 12 FEC: 4 ACCESS_BYTES: 0xd654 <--new spaceymcspaceface 2:57 PM Copy that, working on it now Your new settings should be active, checking them now OK, radio settings confirmed **NETWORK CHANNEL: 6** CONSTELLATION: BPSK

SPS: 12 FEC: 4

ACCESS BYTES: 0xd654 <--new





j0nam1el 6:18 PM

for public discussion: can you reveal total point values for each challenge?



thanks for a great competition, Mission Control!





spaceymcspaceface 6:23 PM

Thanks for playing!!



SirGoon 6:29 PM

What did your team think of this years game?



j0nam1el 6:36 PM

Consensus here was that this year's finals competition was 10x better than last year's finals competition. Well done, and seriously, thanks for all the hard work!





safemode 6:37 PM

Thanks! thats really good to hear



Cydonia 6:38 PM

Thanks we have been working very har

6:38

d