

# Project Jericho

## PREREQUESTS

- Install Powershell V7  
(<https://github.com/PowerShell/PowerShell/releases/download/v7.1.0/PowerShell-7.1.0-win-x64.msi>)

## EXPLANATION OF TOOLS

### TOOL #1 – 3D Navigation Powershell Script

Navigation\_CIG Coordinates System\_V6.ps1

- main script for 3d navigation
- while running, it updates itself each time the clipboard gets new coordinates that differs from previous ones
- you can now enter /showlocation command in chat to update your current position / script
  - or use tool #2

### TOOL #2 – Issue /ShowLocation on Keypress (Hotkey)

Showlocation\_AltGR as Hotkey.exe or Showlocation\_AltGR as Hotkey.ahk

- this is a little autohotkey script, that sends /showlocation to chat
- each time you press the pre defined hotkey, the command is issued to StarCitizen
  - **ALT-GR** = german keyboard
  - **LEFT CTRL + ALT** = other keyboard layouts
- In subfolder sources you can compile your own exe or use the ahk variant if AutoIt is installed
- the ahk file can be reviewed in a texteditor to see the very simple code that is executed

### TOOL #3 – Keep script in front of StarCitizen

- Allows you to show the script in front of StarCitizen
- allows you to set an opacity
- allows to click through the window, so you can click everywhere in StarCitizen
- StarCitizen needs to run in windowed or borderless mode

# USAGE

## Pre

- Run the script (with Powershell v7)

## Select Destination in Frontend

Project Jericho

RUN

Show QM

Reserved

Load Instructions

Legend

No coordinates  
QuantumMarker (starting point)  
QuantumMarker (suggested)  
☒ QuantumMarker (selected)

QuantumMarker (Optional)

☐ Planet - ArcCorp  
☐ Planet - Crusader  
☒ Planet - Hurston  
☐ Planet - Microtech  
☐ Moon - Delamar  
☐ Lagrange - ARC-L1  
☐ Lagrange - ARC-L2  
☒ Lagrange - ARC-L3  
☐ Lagrange - ARC-L4  
☐ Lagrange - ARC-L5  
☐ Lagrange - CRU-L1  
☐ Lagrange - CRU-L2  
☐ Lagrange - CRU-L3  
☐ Lagrange - CRU-L4  
☐ Lagrange - CRU-L5  
☐ Lagrange - HUR-L1  
☐ Lagrange - HUR-L2  
☐ Lagrange - HUR-L3  
☐ Lagrange - HUR-L4  
☐ Lagrange - HUR-L5  
☒ Lagrange - MIC-L1

Custom Coordinates:

X  
Y  
Z

Limits (meters)

Distance Green

1,000

Distance Yellow

100,000

QuantumMarker

100,000

QuantumMarker

1,000,000

Destination

☒ Station - INS-Jericho  
☐ Wreck - Procyon  
☐ Everus NPC Armor Printing  
☐ Reserved

Instructions

1. Jump to MIC-L1-STATION (Shallow Frontier)  
2. Jump to MIC-L1 and stop at 6.782km (jump for 5.961km)  
3. Jump to Hurston and stop at 34,269.072km (jump for 689km)  
4. Jump to ARC-L3 and stop at 49,067.144km (jump for 27.127km)  
5. Fly towards INS-Jericho for 1km using the course deviation

1. **Select your destination** (for example "Station - INS-Jericho")
  - a. Alternative: check box "Custom Coordinates"
  - b. Enter your X, Y and Z coordinates into the regarding fields
2. Optional: Click on **Show QM** for Quantum Travel and Triangulation
  - a. Select all Quantum Marker that you want to show up while navigating
  - b. BLUE QM = shows your recommended starting point
  - c. GREEN QM = recommended quantum markers for triangulation
3. Optional: Click on **Load Instructions**
  - a. *Not fully functional yet, instructions are always shown after you click on RUN*
  - b. This will show you the recommended route to get close to your destination
  - c. Instructions are calculated that precise that if followed perfectly you directly hit your destination within a few meters
4. Click on **RUN** to start navigation (backend opens for now)

## Results / Display

```
12/22/2020 22:42:16 (Current Destination: INS-Jericho)

Type      Distance      Delta
-----
Total      53.262.529km 457m    1.006km 338m
X-Axis     39.157.956km 993m    1.000km 000m
Y-Axis     36.104.729km 626m    400km 000m
Z-Axis      9.876km 617m    20km 000m

QuantumMarker  Current      Final
-----
Planet-Hurston 31.921.685km 683m    34.253.442km 070m
ARC-L3         18.156.259km 848m    49.067.144km 859m
MIC-L1         53.283.713km 693m    21.980km 446m

Course deviation = 19.63° (Previous: 29.67 °)
ETA = 1 Days 9 Hours 15 Minutes 14 Seconds

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```

- First line = Shows timestamp of last update and your current destination
- First table = shows the distance between your position and the final destination
  - Distance = shows current distances
    - Total = beeline between you and destination
    - X-Axis = difference on x axis
    - Y-Axis = difference on x axis
    - Z-Axis = difference on x axis
    - is coloured yellow when within 100km (or what you have set on limits)
    - is coloured green when within 1km (or what you have set on limits)
  - Delta = shows differences between the last two measurements
    - is coloured red if you got more far way
    - is coloured green if you got closer
- Second table = shows the current und final distance between the destination and the QM
  - is coloured yellow when within 1000km (or what you have set on limits)
  - is coloured green when within 100km (or what you have set on limits)
  - theses distances are used for triangulation on the final meters (since we have an angle and instructions, we currently don't need that info)
- Course deviation (current and previous value)
  - Shows the angle you are traveling towards your destination (after the first two updates)
  - Turns green when below 10°
  - Turns green when below 3°
  - Turn cyan when below 0,1° (can be used to identify closest quantum marker manually)
- ETA
  - Shows the current ETA based on the difference between your last two updates
  - If your heading in the opposite direction, it shows a warning that you should turn around

- Instructions (last line)

## First Navigation via Quantum Travel

1. jump to the blue coloured reference point
  - a. Example Jericho = MIC-L1-STATION
2. before and after each upcoming jump, issue the /showlocation command in chat or use tool #2
3. follow the instructions for first approach via quantum travel

## Final Navigation via angle (or triangulation)

1. issue the /showlocation command in chat (or use the tool provided for that)
2. now fly slowly into any direction
3. after a few seconds issue another /showlocation command and watch course deviation
4. keep flying slowly and dig around in space until you are within 10°, after that raise to fullspeed
5. while traveling update the script on a regular basis (more often when you get closer)
6. aim for angles below 10° (YELLOW)
7. Keep looking for your destination in external view in front of your ship in a regular basis
  - a. Jericho renders in at a distance of 65km

## Default Color coding of distances

- Green Distance = within 1km
- Yellow Distance = within 100km
- Red Distance = more than 100km away

## Default Color coding of quantum marker

- Green Distance = within 100km
- Yellow Distance = within 1000km
- Red Distance = more than 1000km away

## Default Color coding of angles

- Green Angle = <03°, marks the ideal course/direction
- Yellow Angle = <10°, travel towards destination with full speed
- Red Angle = >10°, you are not on course
- Blue Angle = <0,1°, used to identify the next QT Marker from far way