

Hello, everyone! Mikhael here to give you all another Nasuverse calculation! This time, I shall be giving a proper calc doc to a certain overlooked feat in VSDebates: the Moon Cell scanning the whole Earth in nanosecond.



Now... there's this calc I made in my EMIYA blog. However, this kind of... ignores all possible context, given the Earth in the Nasuverse is, quite literally, built different: for instance, the uppermost layer of the Earth is literally a texture, which many works including Melty Blood & Fate/Grand Order elaborate extensively to establish that they might as well be literal universes.

So... given the cosmology and a bit of vagueness as to how it scans the Earth, I shall do 2 different approaches with each approach having a low end and high end: assume that it scanned the diameter of the universe(s) and assume the Moon Cell pulls an EXE with its scans.

So... for the first approach, I shall just assume a Universe diameter of $8.8e26$ meters as a low-ball, and the diameter of 3000 worlds as a high-ball (this is due to trichiliocosm actually existing in the Nasuverse + Fate/Extella showing us that there are a bunch of timelines. Timelines of the Earth by the way, which... Fate/Grand Order ALSO equates with textures -aka Lostbelts-.)

So, let's get it!

Low-end: $8.8e26$ meters / $1e-9$ seconds = $8.8e35$ m/s or 2.935 Octillions C (**Massively FTL+**)

High-end: $2.639999999e30$ meters / $1e-9$ seconds = $2.639999999e39$ m/s or 8.8061 Nonillions C (**Massively FTL+**)

Nice! Now... for the other approach. The Moon Cell core was stated to [have a diameter of 3000 km at least](#). So I'll use this as an area of search.

Area of Search: $7068583470577.0347865409476124$ m²

Volume: $3.58e80$ m³

Low-end distance: $(3.58e80 \text{ m}^3 / 7068583470577.0347865409476124 \text{ m}^2) = 50646639668354249071342566477502144364919849735233345881504312570218.67$ meters

High-end distance: $(3.58e80 \text{ m}^3 / 7068583470577.0347865409476124 \text{ m}^2) * 3000 = 151939919005062747214027699432506433094759549205700037644512937710656019.3$ 282277078849908 meters

Low-end speed: $5.064663966835427e76$ m/s or $1.6893900535801427e+68$ C or 168.94 Unvigintillions C (**Massively FTL+**)

High-end speed: $1.519399190050628e80$ m/s or $5.06817016074042778e+71$ or 506.817 Duovigintillions C (**Massively FTL+**)

Crazy!!!!!!!

One could just jump in and say the feat's infinite speed due to there being statements suggesting a texture is infinite in size, so... Yeah!

Those that use the power of the Moon Cell, those that fight those that are either being powered by the Moon Cell or are comparable to the Moon Cell (Sefar due to being a threat to the Moon Cell itself, with the latter not being able to defeat it and Crimson Moon due to it being the Tsukihime and non-sentient equivalent to the Moon Cell) would scale.