ROVER'S CPI



Processing Speed

Human baseline:

Average reaction time to visual stimulus: ~250 milliseconds (0.25 s)

Above average humans - top shape (athletes/gamers): ~120 milliseconds (0.12 s)

Top IQ individuals may have cognitive processing speeds ~2-3× faster than average (so maybe ~80 ms)

Rover's processing speed:

Uses photon attacks at speed of light (~3×10^8 m/s) his mental processing for combat decisions must be near instantaneous relative to human perception.

Escaped a black hole event horizon, implying perception and reaction within sub-millisecond scales, and possible relativistic time dilation effects enhancing his perception.

Estimate:

Rover's effective mental reaction time is at least 10,000× faster than the average genius, since he reacts at photon speeds and deals with multidimensional phenomena.

Human elite reaction time: 0.12 s

Rover's reaction time: 0.12 s / 10,000 = 0.000012 seconds (12 microseconds)

Working Memory

Rover's working memory can handle 10,000 discrete "chunks" or information units simultaneously (1,000× human elite).

Estimates vary, but the brain processes about 120 bits per second consciously (estimates from cognitive psychology)

Elite problem solving can speed up data chunk integration by a factor of 2-5×

Given his feats, he must process millions to billions of bits per second (to control weapons, analyze space-time, make decisions).

Multiply human conscious throughput by 1,000,000× (about 120 million bits per second or more).

Quantum physics and multidimensional theories: Tens of thousands of pages of complex scientific data.

Tacet Discords, Sonoro Spheres, Remnant Energy mechanics: Entirely new physics and metaphysics, with no earthly analogues.

Weapons systems and combat strategies: Full mastery over advanced high-dimensional tech, dozens (or hundreds) of complex systems.

Alternate timelines and causal chains: Memorizing and processing countless possible futures and pasts.

Average human memory storage (rough estimate): about 2.5 petabytes over a lifetime, but only a fraction is consciously accessible or memorized deeply.

Highly trained experts may memorize tens of thousands of pages in their domain (doctors, scientists, DARPA Engineers).

Rover Memorized millions to billions of discrete data units (concepts, equations, sensory info).

Equivalent to exabytes (1 exabyte = 1,000 petabytes) of highly structured, interconnected knowledge.

A PhD-level scientist might memorize roughly 50,000 pages of textbooks, research papers, and practical knowledge. Comparing that, rover learned and memorized thousands of times more, including abstract physics.