Implementing next generation web server in Galaxy

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Problem context

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- We experience web disconnects with many concurrent users.
- The build-in WSGI server (Paste) cannot handle high volume connections.
- Are there other alternatives to Paste?
Benchmark

Figure: WSGI benchmark
Problem definition

Our solution

Install WSGI server and galaxy servers package

```
pip install greenlet gunicorn
pip install galaxieservers
# in universe_wsgi.ini:
server:main
use = egg:galaxyserver#gunicorn
```
Results

- Code online at: https://github.com/wyleung/galaxyservers/
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- Package in PyPi: galaxyservers