

C++ code 11.6.13: Evaluation operator for **GodunovFlux** → **GitLab**

```
2 double GodunovFlux::operator()(double v, double w) const {
3     double result;
4     if (v >= w)
5         result = std::max(_f(v), _f(w));
6     else {
7         if (_f.derivative(v) > 0.0)
8             result = _f(v);
9         else if (_f.derivative(w) < 0.0)
10            result = _f(w);
11        else {
12            auto df = [this](double x) { return _f.derivative(x); };
13            double z = findRoots(v, w, df);
14            result = _f(z);
15        }
16    }
17    return result;
18 }
```