

Basic (and simplified) algorithms from the or-tools library

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Abstract

This little document collects different algorithms from the Google or-tools library.

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1 Main search algorithms

1.1 Simplified version

```
Function NewSearch(db, monitors)
Input: db: a constant pointer to a DecisionBuilder
Input: monitors: a constant reference to a constant std::vector<SearchMonitor*>
foreach Task i do
    foreach Processor j do
        Calculate EW(i,j);
        if EW(i,j) ≤ EW(a,b) then
            a = i;
            b = j;
        end
    end
end
while Unscheduled tasks remaining do
    foreach Processor j do
        Calculate FT(a,j);
        if FT(a,j) ≤ FT(a,c) then
            c = j;
        end
    end
    Schedule(Task a on Processor c) ;
end
```

*You can reach me at ortools.doc@gmail.com if you need some help. ;-)