

```
int[0, M] avail_processors = M;  
urgent chan run[N];  
broadcast chan synch, first_synch;  
chan priority first_synch < run;  
chan priority synch < run;
```

```
bool is_last_segment() {  
    return seg_idx ==  
        Tasks[id].k - 1;  
}
```

```
bool job_ready() {  
    return queue_len > 0;  
}
```

```
bool processor_avail() {  
    return avail_processors > 0;  
}
```