



- **Parameters:**
 - **Local processing:**
 - Average CPU time to process an instance (T_{avg})
 - Number of instances processed ($#inst$)
 - I/O time per generation (T_{IO})
 - Number of I/O operations ($#IOs$)
 - **Global processing:**
 - Message time (T_{msg})
 - Number of bytes transferred (msgpack)
 - Transfer time (send a byte from one site to another) (T_{trans})
 - Number of bytes transferred (#bytes)
 - Total time can also be expressed in terms of packets
- **Calculations:**
 - Resources = $T_{avg} \cdot #inst + T_{IO} \cdot #inst + T_{msg} \cdot #msgpack + T_{trans} \cdot #bytes$

Calculations:

Resources = $T_{CPU} * \#inst + T_{IO} * \#I/Os + T_{Mem} * \#msgs + T_{TR} * \#bytes$

Response Time = $T_{CPU} * seq_{CPU} + T_{IO} * seq_{I/O} + T_{Mem} * seq_{msg} + T_{TR} * seq_{bytes}$