$$M = P \cdot \frac{J}{1-(1+J)^{-N}}$$

$$\frac{-b \pm \sqrt{b^2-4ac}}{2a}$$

$$\begin{aligned} x &= \frac{n}{x} \\ x^2 &= n \\ x &= \sqrt{n} \end{aligned}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & \cos\theta & -\sin\theta \\ 0 & \sin\theta & \cos\theta \end{bmatrix}$$

$$v_i' = \sum_{j=1}^{n} A_{ij} \cdot v_j$$

$$\sigma = \sqrt{\frac{1}{n-1}\sum_{i=1}^{n}(x_i-\mu)^2}$$

$$f(x) = \sqrt{x}$$

$$F = \frac{Gm_1m_2}{r^2}$$

$$d = \sqrt{(x_1-x_2)^2+(y_1-y_2)^2+(z_1-z_2)^2}$$

$$d = \sqrt{(x_1-x_2)^2+(y_1-y_2)^2}$$

$$\begin{aligned} \mathbf{F}_{ab} &= -G\frac{m_am_b}{|\mathbf{r}_{ab}|^2}\,\hat{\mathbf{r}}_{ab} \\ \hat{\mathbf{r}}_{ab} &= \frac{\mathbf{r}_b-\mathbf{r}_a}{|\mathbf{r}_b-\mathbf{r}_a|} \end{aligned}$$

$$S = \sum_{i=1}^{N} f\left(a_i\right)$$

$$S_1 = \sum_{i=1}^{\lfloor \frac{N}{2} \rfloor} f\left(a_i\right) \qquad S_2 = \sum_{i=\lfloor \frac{N}{2} \rfloor + 1}^{N} f\left(a_i\right)$$

$$\text{speedup} = \frac{t_s}{t_c} = \frac{4,100}{1,660,000} = 0.00246$$

$$C_{ij} = \sum_{k=1}^{n} A_{ik} B_{kj} = A_{i1} B_{1j} + A_{i2} B_{2j} + \ldots + A_{in} B_{nj}$$

$$y = \sqrt{r^2 - x^2}$$