

ot: origin of the robot trame

O'': Origin of the world from

P': robot LoM state

PH-T: End-effector vector in

world from

P(O)(PH-P): transform to robot from

D(O) = The many or more than to robot from

D(O) = The many or more than the contract of the

R(0): rotation matrix

Low: width of the bounding box

bh: height of the bounding box

Center Position of front log: Pf-center = (\frac{1}{2} \cdot body-length, -(\frac{1}{2} body height + default-leg-length))

Center Position of Hind log: Ph-center = (-\frac{1}{2} body-length) - (\frac{1}{2} body height + default-log. length))

Lin local robot frame)

P(0). [P-7] - P- enter | S

B=[bw.bh]

 $-\frac{1}{52} \leq R(\theta) \cdot (\vec{r} - \vec{r}) - \vec{r}^{F} \text{ center } \leq \frac{1}{5}/2$ $-\frac{1}{5} \ln \frac{1}{2} \leq \frac{1}{5} \ln \frac{1}{2}.$

Leg. vertor = [PFx-x; Pfy-y]

[(05(0). [Pfx-x) + Sin(0). (Pfy-y)]

[-Sin(1) (Pfx-x) + (16(0). (Pfy-y)]