Recorded at time: 1563004966.583 odom Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec base\_footprint Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec /Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec base\_roll\_link arm\_lift\_link base\_range\_sensor\_link torso\_lift\_link base\_imu\_frame Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec base\_r\_drive\_wheel\_link arm\_flex\_link base\_l\_drive\_wheel\_link base\_l\_passive\_wheel\_x\_frame base\_r\_passive\_wheel\_x\_frame head\_pan\_link Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Average rate: 8.261 Hz Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec Buffer length: 4.963 sec Buffer length: 4.963 sec arm\_roll\_link base\_l\_passive\_wheel\_y\_frame base\_r\_passive\_wheel\_y\_frame head\_tilt\_link /Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge\_6851 \ Broadcaster: /sigverse\_ros\_bridge\_6851 \ Broadcaster: /sigverse\_ros\_bridge\_6851 \ Broadcaster: /sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Most recent transform: 1563004966.569 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.569 ( 0.015 sec old) Buffer length: 4.963 sec base\_l\_passive\_wheel\_z\_link base\_r\_passive\_wheel\_z\_link wrist\_flex\_link head\_rgbd\_sensor\_link head\_center\_camera\_frame head\_l\_stereo\_camera\_link head\_r\_stereo\_camera\_link Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge/sigverse\_ros\_bridge/sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851

Broadcaster: /sigverse\_ros\_bridge\_6851

Broadcaster: /sigverse\_ros\_bridge\_6851

Broadcaster: /sigverse\_ros\_bridge\_6851

Broadcaster: /sigverse\_ros\_bridge\_6851

Broadcaster: /sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.569 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec head\_rgbd\_sensor\_depth\_frame head\_r\_stereo\_camera\_rgb\_frame head\_rgbd\_sensor\_rgb\_frame wrist\_roll\_link head\_center\_camera\_rgb\_frame head\_l\_stereo\_camera\_rgb\_frame /Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 \ Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) \ Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec hand\_palm\_link wrist\_ft\_sensor\_frame Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 | Broadcaster: /sigverse\_ros\_bridge\_6851 | Broadcaster: /sig Average rate: 8.261 Hz Average rate: 8.261 Hz Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) \ Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) | Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec Buffer length: 4.963 sec Buffer length: 4.963 sec hand\_l\_proximal\_link hand\_motor\_dummy\_link hand\_r\_proximal\_link hand\_camera\_frame Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec Buffer length: 4.963 sec hand\_l\_spring\_proximal\_link hand\_r\_spring\_proximal\_link hand\_camera\_rgb\_frame Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec hand\_l\_mimic\_distal\_link hand\_r\_mimic\_distal\_link Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec hand\_l\_distal\_link hand\_r\_distal\_link Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Broadcaster: /sigverse\_ros\_bridge/sigverse\_ros\_bridge\_6851 Average rate: 8.261 Hz Average rate: 8.261 Hz Average rate: 8.261 Hz Most recent transform: 1563004966.568 ( 0.015 sec old) \ Most recent transform: 1563004966.568 ( 0.015 sec old) Most recent transform: 1563004966.568 ( 0.015 sec old) Buffer length: 4.963 sec Buffer length: 4.963 sec Buffer length: 4.963 sec

view\_frames Result

hand\_l\_finger\_tip\_frame

hand\_l\_finger\_vacuum\_frame

hand\_r\_finger\_tip\_frame