**Experiment I**

1. **Peak Disk use**

fH = gcf;

x=[1 2 3];

y=[40 40 40; 26 26 26; 21.7466 21.31348451 21.875166; 21.0002 20.9901 20.88];

h = bar(x,y');

set(gca, 'fontsize',14)

ylim([0, 75])

ylabel('PDU[byte/ch]')

legend('ProgA', 'ProgB', 'ProgB+', 'ProgC')

set(gca, 'xticklabel', {'enwiki\_8g', 'uniprot', 'proteins'});

applyhatch\_pluscolor(fH, '\-x.', 0, [1 0 1 0]);

1. **I/O Volume**

fH = gcf;

x=[1 2 3];  
y=[155 155 155; 221 182 194;187 161 171; 53.001 53.001 53.0044];

h = bar(x,y');

set(gca, 'fontsize',14)

ylim([0, 300])

ylabel('IOV[byte/ch]')

legend('ProgA', 'ProgB', 'ProgB+', 'ProgC')

set(gca, 'xticklabel', {'enwiki\_8g', 'uniprot', 'proteins'});

applyhatch\_pluscolor(fH, '\-x.', 0, [1 0 1 0]);

1. **Time**

fH = gcf;

x=[1 2 3];  
y=[2.11344019 2.26296531 1.854827971;

2.811430022 2.558260368 2.414302624;

2.784992103 2.113201636 2.252385383;

0.72431867 0.737587843 0.637047269];

h = bar(x,y');

set(gca, 'fontsize',14)

ylim([0, 5])

ylabel('RT[us/ch]')

legend('ProgA', 'ProgB', 'ProgB+', 'ProgC')

set(gca, 'xticklabel', {'enwiki\_8g', 'uniprot', 'proteins'});

applyhatch\_pluscolor(fH, '\-x.', 0, [1 0 1 0]);

**Experiment II**

1. **Peak Disk Use**

set(gca, 'fontsize',14)

x = [1, 2, 4, 8]

y1 = [40, 40, 40, 40]

y2 = [26, 26, 26, 26]

y3 = [21.5156, 21.6533, 21.7441, 21.7466]

y4 = [21.002, 21.001, 21.0005, 21.0002]

plot(x, y1,'-ok', x, y2,'-+k', x, y3, '-squarek', x, y4, '-diamondk')

ylabel('PDU[byte/ch]')

xlim([0,10])

ylim([0,75])

legend('ProgA','ProgB', 'ProgB+', 'ProgC')

1. **IOV**

set(gca, 'fontsize',14)

x = [1, 2, 4, 8]

y1 = [155, 155, 155, 155]

y2 = [190, 191, 192, 221]

y3 = [176, 171, 168, 187]

y4 = [53.0078, 53.0039, 53.002, 53.001]

plot(x, y1,'-ok', x, y2,'-+k', x, y3, '-squarek', x, y4, '-diamondk')

ylabel('IOV[byte/ch]')

xlim([0,10])

ylim([50,300])

legend('ProgA', 'ProgB', 'ProgB+', 'ProgC')

1. **CT**

set(gca, 'fontsize',14)

x = [1, 2, 4, 8]

y1 = [1.697409898, 1.836929005, 1.8923264, 2.135343384]

y2 = [2.466997597, 2.43634521, 2.584560309, 2.811430022]

y3 = [2.544820309, 2.510815393, 2.562918235, 2.784992103]

y4 = [0.68619382, 0.785370357, 0.75741438, 0.74431867]

plot(x, y1, '-ok', x, y2, '-+k', x, y3, '-squarek', x, y4, '-diamondk')

xlabel('Input Size[GiB]')

ylabel('RT[us/ch]')

xlim([0,10])

ylim([0,5])

legend('ProgA','ProgB','ProgB+', 'ProgC')