```
% Plots Fat-Tree Paths

nlevels = 4;
k = 1;
x = zeros(sum(ntot),1);
y = zeros(sum(ntot),1);
for i = 1:nlevels
    for j = 1:ntot(i)
        y(k) = (i)/(nlevels+1);
        x(k) = (j)/(ntot(i)+1);
        k = k+1;
    end
end

% source = 2,1 destination = 2,3

paths = FTpaths(A,n,2,1,2,3);
paths

S = size(paths);
figure
for i = 1:S(1)
    Ap = eye(sum(ntot));
    for j = 1:S(2)-1
    Ap(paths(i,j),paths(i,j+1)) = 1;
    Ap(paths(i,j+1),paths(i,j)) = 1;
    end
    gplot(Ap, [x y],'-k*');
    hold on
end
title('Fat-Tree Paths','Color','k','fontsize', 18)
text (-0.22,0.2,'Servers','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.4,'Edge','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.6,'Aggregation','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.8,'Core','Color',[0 0.5 0.6],'fontsize', 11)
xlabel('SOURCE: nPod = 2, nPos = 1  DESTINATION: nPod = 2, nPos = 3',...
    'Color','k','fontsize', 11)
set(gca,'XTick',[],'YTick',[])
for i = 0:n-1
    text (i/n,0.17,'Pod','Color',[0 0.5 0.6],'fontsize', 11)
end
axis([-0.25 1.05 0.12 0.85])
hold off

% source = 2,1 destination = 2,9

paths = FTpaths(A,n,2,1,2,9);
paths

S = size(paths);
figure
for i = 1:S(1)
    Ap = eye(sum(ntot));
    for j = 1:S(2)-1
    Ap(paths(i,j),paths(i,j+1)) = 1;
    Ap(paths(i,j+1),paths(i,j)) = 1;
    end
    gplot(Ap, [x y],'-k*');
    hold on
end
title('Fat-Tree Paths','Color','k','fontsize', 18)
text (-0.22,0.2,'Servers','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.4,'Edge','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.6,'Aggregation','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.8,'Core','Color',[0 0.5 0.6],'fontsize', 11)
xlabel('SOURCE: nPod = 2, nPos = 1  DESTINATION: nPod = 2, nPos = 9',...
    'Color','k','fontsize', 11)
set(gca,'XTick',[],'YTick',[])
for i = 0:n-1
    text (i/n,0.17,'Pod','Color',[0 0.5 0.6],'fontsize', 11)
end
axis([-0.25 1.05 0.12 0.85])
hold off

% source = 2,1 destination = 6,8

paths = FTpaths(A,n,2,1,6,8);
paths

S = size(paths);
figure
for i = 1:S(1)
    Ap = eye(sum(ntot));
    for j = 1:S(2)-1
    Ap(paths(i,j),paths(i,j+1)) = 1;
    Ap(paths(i,j+1),paths(i,j)) = 1;
```

```
    end
    gplot(Ap, [x y],'-k*');
    hold on
end
title('Fat-Tree Paths','Color','k','fontsize', 18)
text (-0.22,0.2,'Servers','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.4,'Edge','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.6,'Aggregation','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.8,'Core','Color',[0 0.5 0.6],'fontsize', 11)
text (-0.22,0.8,'Core','Color',[0 0.5 0.6],'fontsize', 11)
xlabel('SOURCE: nPod = 2, nPos = 1  DESTINATION: nPod = 6, nPos = 8',...
    'Color','k','fontsize', 11)
set(gca,'XTick',[],'YTick',[])
for i = 0:n-1
    text (i/n,0.17,'Pod','Color',[0 0.5 0.6],'fontsize', 11)
end
axis([-0.25 1.05 0.12 0.85])
hold off
```

```
paths =

    10    58    12


paths =

    10    58    76    60    18
    10    58    77    60    18
    10    58    78    60    18


paths =

    10    58    76    91    88    72    53
    10    58    76    92    88    72    53
    10    58    76    93    88    72    53
    10    58    77    94    89    72    53
    10    58    77    95    89    72    53
    10    58    77    96    89    72    53
    10    58    78    97    90    72    53
    10    58    78    98    90    72    53
    10    58    78    99    90    72    53
```

Published with MATLAB® 7.12