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% read_rpb.m 31-mar-2017
% read DG rpb support data file

fid=fopen('laf01\laf01.rpb','rt');
for i=1:4
    lin=fgets(fid);
end

% read the scales and offsets

nm=zeros(12,1);
for i=1:12
    lin=fgets(fid);
    ca=textscan(lin,'%*s %*s %s');
    str=char(ca{1,1});
    nm(i)=sscanf(str,'%f;');
end

errBias=nm(1);
errRand=nm(2);
lineOffset=nm(3);
sampOffset=nm(4);
latOffset=nm(5);
longOffset=nm(6);
heightOffset=nm(7);
lineScale=nm(8);
sampScale=nm(9);
latScale=nm(10);
longScale=nm(11);
heightScale=nm(12);

lin=fgets(fid);

% read the line numerator coefficients

P1=zeros(20,1);
for i=1:20
    lin=fgets(fid);
    if(i~=20)
        P1(i)=sscanf(lin,'%f,');
    else
        P1(i)=sscanf(lin,'%f;');
    end
end

lin=fgets(fid);

% read the line denominator coefficients

P2=zeros(20,1);
for i=1:20
    lin=fgets(fid);
    if(i~=20)
        P2(i)=sscanf(lin,'%f,');
    else
        P2(i)=sscanf(lin,'%f;');
    end
end

lin=fgets(fid);

% read the sample numerator coefficients

P3=zeros(20,1);
for i=1:20
    lin=fgets(fid);
    if(i~=20)
        P3(i)=sscanf(lin,'%f,');
    else
        P3(i)=sscanf(lin,'%f;');
    end
end

lin=fgets(fid);

% read the sample denominator coefficients

P4=zeros(20,1);
for i=1:20

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read_rpb

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lin=fgets(fid);
if(i~=20)
    P4(i)=sscanf(lin,'%f,');
else
    P4(i)=sscanf(lin,'%f;');
end
end

% ok, done reading

fclose(fid);
```