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diff\_residuez.txt

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```

45c45,49
< function [r, p, f, m] = residuez(B, A, tol)
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%function [r, p, f, m] = residuez(B, A, tol)
> %%%%%%%%%%% new_code %%%%%%%%%%%
>         function [r, p, f, m] = bg_residuez(B, A, tol)
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
75c79,101
< [r,p,f,m]=residue(conj(fliplr(NUM)),conj(fliplr(DEN)));
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%[r,p,f,m]=residue(conj(fliplr(NUM)),conj(fliplr(DEN)));
> %%%%%%%%%%% new_code %%%%%%%%%%%
>         global G_FID
>         global G_DEBUG
>         if G_DEBUG
>             fprintf(G_FID,'Converting a and b to A and B in bg_residuez gives\n');
>             bg_print('B',conj(fliplr(NUM)));
>             bg_print('A',conj(fliplr(DEN)));
>             fprintf(G_FID,'----- ');
>             fprintf(G_FID,'Into [R,P,F,M]=bg_residue(B,A,"MODE_Z");\n');
>         end
> [r,p,f,m]=bg_residue(conj(fliplr(NUM)),conj(fliplr(DEN)),"MODE_Z");
>         if G_DEBUG
>             fprintf(G_FID,'----- ');
>             fprintf(G_FID,'Out of [R,P,F,M]=bg_residue(B,A,"MODE_Z");\n');
>             fprintf(G_FID,'Outputs from bg_residue are:\n');
>             bg_print('R',r);
>             bg_print('P',p);
>             bg_print('F',f);
>             bg_print('M',m);
>         end
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
79a106,116
> %%%%%%%%%%% new_code %%%%%%%%%%%
>         if G_DEBUG
>             fprintf(G_FID,'Converting R,P,F and M to r,p,f and m ');
>             fprintf(G_FID,'in bg_residuez gives;\n');
>             bg_print('r',r);
>             bg_print('p',p);
>             bg_print('f',f);
>             bg_print('m',m);
>         end
> endfunction
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
81a119,123
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
90c132,136
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
98c144,148
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
107c157,161
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
116c170,174
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %%%
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
125c183,187
< %! [r,p,f,m] = residuez(B,A);

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---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
134c196,200
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
143c209,213
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
152c222,226
< %! [r,p,f,m] = residuez(B,A);
---
> %%%%%%%%%%% old_code %%%%%%%%%%%
> %
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %! [r,p,f,m] = residuez(B,A);
> %! [r,p,f,m] = bg_residuez(B,A);
> %%%%%%%%%%% end of new_code %%%%%%%%%%%
169a244,281
> %%%%%%%%%%% new_code %%%%%%%%%%%
> %!test
> %! z1=+7.0372976777e+06;
> %! p1=-3.1415926536e+09;
> %! p2=-4.9964813512e+08;
> %! r1=-(1+z1/p1)/(1-p1/p2)/p2/p1 ;
> %! r2=-(1+z1/p2)/(1-p2/p1)/p2/p1 ;
> %! r3=(1+(p2+p1)/p2/p1*z1)/p2/p1 ;
> %! r4=z1/p2/p1 ;
> %! fi= 1.05e+08 ;
> %! T =1/fi ;
> %! p1=exp(p1*T);
> %! p2=exp(p2*T);
> %! p3=1;
> %! p4=1;
> %! p =[p1;p2;p3;p4];
> %! r4=r4*T;
> %! r3=r3-r4;
> %! r =[r1;r2;r3;r4];
> %! m=[ 1 , 1 , 1 , 1 ;
> %! -(2+p2) , -(2+p1) , -(1+p1+p2) , -(p1+p2) ;
> %! +(1+2*p2) , +(1+2*p1) , (p1*p2+p1+p2) , +p1*p2 ;
> %! -p2 , -p1 , -p1*p2 , 0 1;
> %! a1=1.00;
> %! a2=-(2+p1+p2);
> %! a3=1+2*(p1+p2)+p1*p2;
> %! a4=-(p1+p2+2*p1*p2);
> %! a5=p2*p1;
> %! a =[a1,a2,a3,a4,a5];
> %! b=[m*r]';
> %! k=[];
> %! e=[1;1;1;2];
> %! [rx,px,kx,ex] = bg_residuez(b,a);
> %! assert ((abs (rx - r) < 1e-8
> %! && abs (px - p) < 1e-8
> %! && isempty (kx)
> %! && ex == e));
> %%%%%%%%%%% end of new_code %%%%%%%%%%%

```