

```

1
2
3     typedef double XFLOAT
4     typedef double OTA_FLOAT
5
6
7 {
8
9 XFLOAT* GetNBAAlign8kTaps(int &TapsLength)
10 {
11     int NBAAlignTaps8kLength = 320
12     XFLOAT NBAAlignTaps8k[] = {
13         8.669753907941669e-004,
14         5.362152845626800e-004,
15         5.616189737574717e-004,
16         7.001417906543989e-004,
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18         3.695739064845271e-004,
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68         -3.915326708320222e-004,

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329 3.651784489849465e-004,
330 7.001417906543968e-004,
331 5.616189737574662e-004,
332 5.362152845626800e-004,
333 }
334
335     TapsLength = NBAlignTaps8kLength
336     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
337     matbCopy(NBAlignTaps8k, Taps, TapsLength)
338
339     return Taps
340 }

```

```

341
342 XFLOAT* GetNBAlign16kTaps(int &TapsLength)
343 {
344     int NBAlignTaps16kLength = 640
345     XFLOAT NBAlignTaps16k[] = {
346         4.334876953970834e-004,
347         3.762422205364268e-004,
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983 2.249522810047019e-004,
984 2.681076422813428e-004,
985 3.762422205364380e-004,
986 }
987     TapsLength = NBAlignTaps16kLength
988     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
989     matbCopy(NBAlignTaps16k, Taps, TapsLength)
990
991     return Taps
992 }
993
994 XFLOAT* GetNBAlign48kTaps(int &TapsLength)
995 {
996     int NBAlignTaps48kLength = 1920
997     XFLOAT NBAlignTaps48k[] = {
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2915 1.254140735121312e-004,
2916 1.355035101143617e-004,
2917 1.421679563601730e-004,
2918 }
2919     TapsLength = NBAlignTaps48kLength
2920     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
2921     matbCopy(NBAlignTaps48k, Taps, TapsLength)
2922
2923     return Taps
2924 }

```



```

2925
2926 XFLOAT* GetSWBAlign8kTaps(int &TapsLength)
2927 {
2928     int SWBAlignTaps8kLength = 320
2929     XFLOAT SWBAlignTaps8k[] = {
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2931         7.594696706962445e-004,
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3250 }
3251
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3253     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
3254     matbCopy(SWBAlignTaps8k, Taps, TapsLength)
3255
3256     return Taps
3257 }
3258
3259 XFLOAT* GetSWBAlign16kTaps(int &TapsLength)
3260 {
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3901 3.797260793539814e-004,
3902 4.882391264769082e-004,
3903 }
3904
3905     TapsLength = SWBAlignTaps16kLength
3906     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
3907     matbCopy(SWBAlignTaps16k, Taps, TapsLength)
3908
3909     return Taps
3910 }
3911
3912 XFLOAT* GetSWBAlign48kTaps(int &TapsLength)
3913 {
3914     int SWBAlignTaps48kLength = 1920
3915     XFLOAT SWBAlignTaps48k[] = {
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5836 }
5837
5838     TapsLength = SWBAlignTaps48kLength
5839     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
5840     matbCopy(SWBAlignTaps48k, Taps, TapsLength)
5841
5842     return Taps
5843 }
5844
5845 XFLOAT* GetIRS8kTaps(int &TapsLength)
5846 {
5847     int IRSTaps8kLength = 320
5848     XFLOAT IRSTaps8k[] = {

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6166 1.594713165784967e-004,
6167 3.870105887587072e-004,
6168 2.798612351074814e-005,
6169 }
6170
6171     TapsLength = IRSTaps8kLength
6172     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
6173     matbCopy(IRSTaps8k, Taps, TapsLength)
6174
6175     return Taps
6176 }
6177
6178 XFLOAT* GetIRS16kTaps(int &TapsLength)
6179 {
6180     int IRSTaps16kLength = 640
6181     XFLOAT IRSTaps16k[] = {
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6824     TapsLength = IRSTaps16kLength
6825     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
6826     matbCopy(IRSTaps16k, Taps, TapsLength)
6827
6828     return Taps
6829 }
6830
6831 XFLOAT* GetIRS48kTaps(int &TapsLength)
6832 {
6833     int IRSTaps48kLength = 1920
6834     XFLOAT IRSTaps48k[] = {
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8746 1.186755099091830e-005,
8747 1.193691042623383e-006,
8748 -1.450048109328158e-006,
8749 4.634597842922509e-006,
8750 1.844171301067510e-005,
8751 3.744986728608790e-005,
8752 5.810576250258049e-005,
8753 7.650952315656860e-005,
8754 8.916872518324922e-005,
8755 }
8756
8757     TapsLength = IRSTaps48kLength
8758     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
8759     matbCopy(IRSTaps48k, Taps, TapsLength)
8760
8761     return Taps
8762 }
8763
8764 XFLOAT* GetWideHead8kTaps(int &TapsLength)
8765 {
8766     int WideHeadTaps8kLength = 320
8767     XFLOAT WideHeadTaps8k[] = {
8768         -7.791872107890896e-004,
8769         -7.746859823598573e-004,
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8771         -7.388986311468532e-004,
8772         -7.079078503772693e-004,

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9081 -5.658224653637140e-004,
9082 -6.210102039796904e-004,
9083 -6.685030885523670e-004,
9084 -7.079078503772707e-004,
9085 -7.388986311468538e-004,
9086 -7.612194226879511e-004,
9087 -7.746859823598594e-004,
9088 }
9089
9090     TapsLength = WideHeadTaps8kLength
9091     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
9092     matbCopy(WideHeadTaps8k, Taps, TapsLength)
9093
9094     return Taps
9095 }
9096
9097 XFLOAT* GetWideHead16kTaps(int &TapsLength)
9098 {
9099     int WideHeadTaps16kLength = 640
9100     XFLOAT WideHeadTaps16k[] = {
9101         -3.895936053944560e-004,
9102         -3.890306615257286e-004,
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9739 -3.873429911799285e-004,
9740 -3.890306615257289e-004,
9741 }
9742
9743     TapsLength = WideHeadTaps16kLength
9744     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
9745     matbCopy(WideHeadTaps16k, Taps, TapsLength)
9746
9747     return Taps
9748 }
9749
9750 XFLOAT* GetWideHead48kTaps(int &TapsLength)
9751 {
9752     int WideHeadTaps48kLength = 1920
9753     XFLOAT WideHeadTaps48k[] = {
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11667 -1.290397909871640e-004,
11668 -1.375643312370181e-004,
11669 -1.283966783908482e-004,
11670 -1.204088833700360e-004,
11671 -1.308454524319565e-004,
11672 -1.398705317720526e-004,
11673 -1.293155075297185e-004,
11674 }
11675
11676     TapsLength = WideHeadTaps48kLength
11677     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
11678     matbCopy(WideHeadTaps48k, Taps, TapsLength)
11679
11680     return Taps
11681 }
11682
11683 XFLOAT* GetFBTaps8k(int &TapsLength)
11684 {
11685
11686     static const int FullbandTaps8kLength = 320
11687     static const XFLOAT FullbandTaps8k[] = {
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11689         -7.081280078589166e-004,
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12005 -6.762695961878118e-004,
12006 -6.961376621582450e-004,
12007 -7.081280078589155e-004,
12008 }
12009
12010     TapsLength = FullbandTaps8kLength
12011     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
12012     matbCopy(FullbandTaps8k, Taps, TapsLength)
12013
12014     return Taps
12015 }
12016
12017 XFLOAT* GetFBTaps16k(int &TapsLength)
12018 {
12019
12020     static const int FullbandTaps16kLength = 640
12021     static const XFLOAT FullbandTaps16k[] = {
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12023         -3.555668789473646e-004,
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12662 }
12663
12664     TapsLength = FullbandTaps16kLength
12665     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
12666     matbCopy(FullbandTaps16k, Taps, TapsLength)
12667
12668     return Taps
12669 }
12670
12671 XFLOAT* GetFBTaps48k(int &TapsLength)
12672 {
12673     static const int FullbandTaps48kLength = 1920
12674     static const XFLOAT FullbandTaps48k[] = {
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14524 -3.481729905209091e-005,
14525 -3.867981580678003e-005,
14526 -3.739794589680059e-005,
14527 -4.146010027310636e-005,
14528 -4.279046629029059e-005,
14529 -4.194802176945289e-005,
14530 -4.801992930469022e-005,
14531 -5.023994310340632e-005,
14532 -4.879122281012232e-005,
14533 -5.393404444210871e-005,
14534 -5.553392988478257e-005,
14535 -5.387141979420682e-005,
14536 -5.935412531418531e-005,
14537 -6.161703267826488e-005,
14538 -6.029749655365827e-005,
14539 -6.555354190852283e-005,
14540 -6.718857035783015e-005,
14541 -6.493871275804914e-005,
14542 -6.957081394523279e-005,
14543 -7.207377281812366e-005,
14544 -7.180931445956984e-005,
14545 -7.684983527826497e-005,
14546 -7.681155566201375e-005,
14547 -7.398098651562462e-005,
14548 -8.004163015796623e-005,
14549 -8.334364088209886e-005,
14550 -8.153690134169445e-005,
14551 -8.502423879998416e-005,
14552 -8.578014935712829e-005,

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14553 -8.437602554308271e-005,
14554 -8.982783413628651e-005,
14555 -9.143543326152458e-005,
14556 -8.939696395699285e-005,
14557 -9.389678126279348e-005,
14558 -9.485805313826217e-005,
14559 -9.257594931399935e-005,
14560 -9.738548671891535e-005,
14561 -9.897694189985433e-005,
14562 -9.700623121008158e-005,
14563 -1.015641435572440e-004,
14564 -1.025041618747215e-004,
14565 -9.958006162894944e-005,
14566 -1.034922858518323e-004,
14567 -1.052700752869242e-004,
14568 -1.042947947634452e-004,
14569 -1.085898599427280e-004,
14570 -1.078146524705887e-004,
14571 -1.042609654458657e-004,
14572 -1.095499528592566e-004,
14573 -1.120771572155315e-004,
14574 -1.095191496253885e-004,
14575 -1.122259853691383e-004,
14576 -1.121975225726889e-004,
14577 -1.100191328261455e-004,
14578 -1.146639649567171e-004,
14579 -1.154646940638975e-004,
14580 -1.126348548742508e-004,
14581 -1.163148522045768e-004,
14582 -1.164542157692691e-004,
14583 -1.133634713220359e-004,
14584 -1.173374080618386e-004,
14585 -1.180896237761666e-004,
14586 -1.152933454049563e-004,
14587 -1.190036668461613e-004,
14588 -1.190927346286096e-004,
14589 -1.153310424212050e-004,
14590 -1.183860055159957e-004,
14591 -1.192994728999961e-004,
14592 -1.174703805750664e-004,
14593 -1.208981676132224e-004,
14594 -1.192534204428669e-004,
14595 }
14596
14597     TapsLength = FullbandTaps48kLength
14598     XFLOAT* Taps = (XFLOAT*)matMalloc(TapsLength*sizeof(XFLOAT))
14599     matbCopy(FullbandTaps48k, Taps, TapsLength)
14600
14601     return Taps
14602 }
14603
14604 XFLOAT gAlignFilterdB Narrow [31][2] = {
14605     {0., -500.0},
14606     {50., -500.0},
14607     {100., -100.0},
14608     {125., -50.0},
14609     {160., -30.0},
14610     {200., -15.0},
14611     {250., -8.0},
14612     {300., 0.0},
14613     {350., 0.0},
14614     {400., 0.0},
14615     {500., 0.0},
14616     {600., 0.0},
14617     {630., 0.0},
14618     {800., 0.0},
14619     {1000., 0.0},
14620     {1250., 0.0},

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14621      {1600., 0.0},
14622      {2000., 0.0},
14623      {2500., 0.0},
14624      {3000., -10.0},
14625      {3250., -30.0},
14626      {3500., -100.0},
14627      {4000., -500.0},
14628      {5000., -500.0},
14629      {6300., -500.0},
14630      {8000., -500.0},
14631      {10000., -500.0},
14632      {12000., -500.0},
14633      {16000., -500.0},
14634      {20000., -500.0},
14635      {24000., -500.0}}
14636
14637  XFLOAT gAlignFilterdBWide [31][2] = {
14638      {0., -500.0},
14639      {50., -500.0},
14640      {100., -500.0},
14641      {125., -100.0},
14642      {160., -50.0},
14643      {200., -30.0},
14644      {250., -20.0},
14645      {300., -10.0},
14646      {350., 0.0},
14647      {400., 0.0},
14648      {500., 0.0},
14649      {600., 0.0},
14650      {630., 0.0},
14651      {800., 0.0},
14652      {1000., 0.0},
14653      {1250., 0.0},
14654      {1600., 0.0},
14655      {2000., 0.0},
14656      {2500., 0.0},
14657      {3000., -7.0},
14658      {3250., -25.0},
14659      {3500., -50.0},
14660      {4000., -80.0},
14661      {5000., -100.0},
14662      {6300., -500.0},
14663      {8000., -500.0},
14664      {10000., -500.0},
14665      {12000., -500.0},
14666      {16000., -500.0},
14667      {20000., -500.0},
14668      {24000., -500.0}}
14669
14670  XFLOAT gStandardIRSdB [31][2] = {
14671      { 0., -100.0},
14672      { 50., -50.0},
14673      {100., -20.0},
14674      {125., -12.0},
14675      {160., -6.0},
14676      {200., 0.0},
14677      {250., 4.0},
14678      {300., 6.0},
14679      {350., 8.0},
14680      {400., 10.0},
14681      {500., 11.0},
14682      {600., 12.0},
14683      {700., 12.0},
14684      {800., 12.0},
14685      {1000., 12.0},
14686      {1300., 12.0},
14687      {1600., 12.0},
14688      {2000., 12.0},

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14689         {2500., 12.0},
14690         {3000., 12.0},
14691         {3250., 12.0},
14692         {3500., 4.0},
14693         {4000., -50.0},
14694         {5000., -100.0},
14695         {6300., -200.0},
14696         {8000., -300.0},
14697         {10000., -400.0},
14698         {12000., -500.0},
14699         {16000., -500.0},
14700         {20000., -500.0},
14701         {24000., -500.0}}
14702
14703 XFLOAT gModifiedIRSdB [31][2] = {
14704     { 0., -60.0},
14705     { 50., -30.0},
14706     {100., -13.4},
14707     {125., -7.4},
14708     {160., -2.4},
14709     {200., 3.2},
14710     {250., 6.7},
14711     {300., 9.2},
14712     {315., 9.7},
14713     {400., 11.3},
14714     {500., 11.9},
14715     {600., 12.1},
14716     {630., 12.1},
14717     {800., 12.3},
14718     {1000., 12.6},
14719     {1250., 12.5},
14720     {1600., 13.1},
14721     {2000., 12.9},
14722     {2500., 12.6},
14723     {3000., 13.0},
14724     {3150., 12.9},
14725     {3500., 10.9},
14726     {4000., 2.1},
14727     {5000., -11.7},
14728     {6300., -25.0},
14729     {8000., -50.0},
14730     {10000., -100.0},
14731     {12000., -200.0},
14732     {16000., -500.0},
14733     {20000., -500.0},
14734     {24000., -500.0}}
14735
14736 XFLOAT gWidebandHeadphone [31][2] = {
14737     { 0., -100.0},
14738     { 50., -6.0},
14739     {100., 6.0},
14740     {125., 12.0},
14741     {160., 12.0},
14742     {200., 12.0},
14743     {250., 12.0},
14744     {300., 12.0},
14745     {315., 12.0},
14746     {400., 12.0},
14747     {500., 12.0},
14748     {600., 12.0},
14749     {630., 12.0},
14750     {800., 12.0},
14751     {1000., 12.0},
14752     {1250., 12.0},
14753     {1600., 12.0},
14754     {2000., 12.0},
14755     {2500., 12.0},
14756     {3000., 12.0},

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14757         {3150., 12.0},
14758         {3500., 12.0},
14759         {4000., 12.0},
14760         {5000., 12.0},
14761         {6300., 12.0},
14762         {8000., 12.0},
14763         {10000., 10.0},
14764         {12000., 6.0},
14765         {16000., -100.0},
14766         {20000., -500.0},
14767         {24000., -500.0}}
14768
14769 XFLOAT gFullBandExtension[31][2] = {
14770     { 0., -100.0 },
14771     { 50., -12.0 },
14772     { 100., 6.0 },
14773     { 125., 12.0 },
14774     { 160., 12.0 },
14775     { 200., 12.0 },
14776     { 250., 12.0 },
14777     { 300., 12.0 },
14778     { 315., 12.0 },
14779     { 400., 12.0 },
14780     { 500., 12.0 },
14781     { 600., 12.0 },
14782     { 630., 12.0 },
14783     { 800., 12.0 },
14784     { 1000., 12.0 },
14785     { 1250., 12.0 },
14786     { 1600., 12.0 },
14787     { 2000., 12.0 },
14788     { 2500., 12.0 },
14789     { 3000., 12.0 },
14790     { 3150., 12.0 },
14791     { 3500., 12.0 },
14792     { 4000., 12.0 },
14793     { 5000., 12.0 },
14794     { 6300., 12.0 },
14795     { 8000., 12.0 },
14796     { 10000., 10.0 },
14797     { 12000., 6.0 },
14798     { 16000., -5.0 },
14799     { 20000., -100.0 },
14800     { 24000., -500.0 } }
14801
14802 XFLOAT gNarrowbandHeadphone [31][2] = {
14803     { 0., -100.0},
14804     { 50., -40.0},
14805     {100., -16.0},
14806     {125., -10.0},
14807     {160., -5.0},
14808     {200., 0.0},
14809     {250., 4.0},
14810     {300., 6.0},
14811     {350., 8.0},
14812     {400., 10.0},
14813     {500., 11.0},
14814     {600., 12.0},
14815     {700., 12.0},
14816     {800., 12.0},
14817     {1000., 12.0},
14818     {1300., 12.0},
14819     {1600., 12.0},
14820     {2000., 12.0},
14821     {2500., 12.0},
14822     {3000., 12.0},
14823     {3250., 12.0},
14824     {3500., 4.0},

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14825         {4000., -50.0},
14826         {5000., -100.0},
14827         {6300., -200.0},
14828         {8000., -500.0},
14829         {10000., -500.0},
14830         {12000., -500.0},
14831         {16000., -500.0},
14832         {20000., -500.0},
14833         {24000., -500.0}}
14834
14835 XFLOAT* GetFBFilter(int ListeningCondition, int SampleFrequency, int &FilterLength)
14836 {
14837     XFLOAT* InputFilter = 0
14838     switch(SampleFrequency)
14839     {
14840         case 8000:
14841             InputFilter = GetFBTaps8k(FilterLength)
14842             break
14843         case 16000:
14844             InputFilter = GetFBTaps16k(FilterLength)
14845             break
14846         case 48000:
14847             InputFilter = GetFBTaps48k(FilterLength)
14848             break
14849         default:
14850             ASSERT(1==2)
14851     }
14852     return InputFilter
14853 }
14854
14855 XFLOAT* GetAmplitudeAlignFilter(int ListeningCondition, int SampleFrequency, int &FilterLength)
14856 {
14857     XFLOAT* AlignFilter = 0
14858     switch(ListeningCondition)
14859     {
14860         case NARROW_H:
14861             switch(SampleFrequency)
14862             {
14863                 case 8000:
14864                     AlignFilter = GetNBAlign8kTaps(FilterLength)
14865                     break
14866                 case 16000:
14867                     AlignFilter = GetNBAlign16kTaps(FilterLength)
14868                     break
14869                 case 48000:
14870                     AlignFilter = GetNBAlign48kTaps(FilterLength)
14871                     break
14872                 default:
14873                     ASSERT(1==2)
14874             }
14875             break
14876         case STANDARD_IRS:
14877             switch(SampleFrequency)
14878             {
14879                 case 8000:
14880                     AlignFilter = GetNBAlign8kTaps(FilterLength)
14881                     break
14882                 case 16000:
14883                     AlignFilter = GetNBAlign16kTaps(FilterLength)
14884                     break
14885                 case 48000:
14886                     AlignFilter = GetNBAlign48kTaps(FilterLength)
14887                     break
14888                 default:
14889                     ASSERT(1==2)
14890             }
14891             break
14892     }

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14893     case WIDE_H:
14894         switch (SampleFrequency)
14895         {
14896             case 8000:
14897                 AlignFilter = GetSWBAlign8kTaps(FilterLength)
14898                 break
14899             case 16000:
14900                 AlignFilter = GetSWBAlign16kTaps(FilterLength)
14901                 break
14902             case 48000:
14903                 AlignFilter = GetSWBAlign48kTaps(FilterLength)
14904                 break
14905             default:
14906                 ASSERT(1==2)
14907         }
14908         break
14909     }
14910
14911     return AlignFilter
14912 }
14913
14914 XFLOAT* GetInputFilterFilter(int ListeningCondition, int SampleFrequency, int &FilterLength)
14915 {
14916     XFLOAT* InputFilter = 0
14917     switch(ListeningCondition)
14918     {
14919         case NARROW_H:
14920             switch(SampleFrequency)
14921             {
14922                 case 8000:
14923                     InputFilter = GetIRS8kTaps(FilterLength)
14924                     break
14925                 case 16000:
14926                     InputFilter = GetIRS16kTaps(FilterLength)
14927                     break
14928                 case 48000:
14929                     InputFilter = GetIRS48kTaps(FilterLength)
14930                     break
14931                 default:
14932                     ASSERT(1==2)
14933             }
14934             break
14935         case STANDARD_IRS:
14936             switch(SampleFrequency)
14937             {
14938                 case 8000:
14939                     InputFilter = GetIRS8kTaps(FilterLength)
14940                     break
14941                 case 16000:
14942                     InputFilter = GetIRS16kTaps(FilterLength)
14943                     break
14944                 case 48000:
14945                     InputFilter = GetIRS48kTaps(FilterLength)
14946                     break
14947                 default:
14948                     ASSERT(1==2)
14949             }
14950             break
14951         case WIDE_H:
14952             switch (SampleFrequency)
14953             {
14954                 case 8000:
14955                     InputFilter = GetWideHead8kTaps(FilterLength)
14956                     break
14957                 case 16000:
14958                     InputFilter = GetWideHead16kTaps(FilterLength)
14959                     break
14960

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14961         case 48000:
14962             InputFilter = GetWideHead48kTaps(FilterLength)
14963             break
14964         default:
14965             ASSERT(1==2)
14966     }
14967     break
14968 }
14969
14970 return InputFilter
14971 }
14972
14973 void AddNoiseFloor(CTimeSeries* TimeSeries, int Length)
14974 {
14975     const XFLOAT MaxNoiseVal = 5
14976     XFLOAT NoiseVal
14977     srand(1)
14978
14979     for (int i=0 i<Length i++)
14980     {
14981         NoiseVal = MaxNoiseVal * (((XFLOAT)rand()/(XFLOAT)RAND_MAX) +
14982 ((XFLOAT)rand()/(XFLOAT)RAND_MAX) + ((XFLOAT)rand()/(XFLOAT)RAND_MAX) +
14983 ((XFLOAT)rand()/(XFLOAT)RAND_MAX) + ((XFLOAT)rand()/(XFLOAT)RAND_MAX) - 2.5) / 2.5
14984         (*TimeSeries)[i] += NoiseVal
14985     }
14986 }
14987
14988 void CPairParameters::NormalizationProcess (XFLOAT CalibrationDb)
14989 {
14990     CNewStdString s
14991
14992     CTimeSeries alignFilteredOriginalTimeSeries, alignFilteredDistortedTimeSeries
14993     alignFilteredOriginalTimeSeries.Initialize("alignFilteredOriginalTimeSeries", POLQAHandle)
14994     alignFilteredDistortedTimeSeries.Initialize("alignFilteredDistortedTimeSeries", POLQAHandle)
14995
14996     int AmplitudeAlignFilterLength
14997
14998     XFLOAT* AmplitudeAlignFilter = 0
14999     AmplitudeAlignFilter = GetAmplitudeAlignFilter(statics->listeningCondition,
15000 (int)statics->sampleRate, AmplitudeAlignFilterLength)
15001
15002     alignFilteredOriginalTimeSeries.FilterWith(POLQAHandle, aOriginalTimeSeries,
15003 AmplitudeAlignFilter, AmplitudeAlignFilterLength)
15004     alignFilteredDistortedTimeSeries.FilterWith(POLQAHandle, aDistortedTimeSeries,
15005 AmplitudeAlignFilter, AmplitudeAlignFilterLength)
15006
15007     const int frameLength = (int)(statics->sampleRate*0.020)
15008     const XFLOAT OverlapCoeff = (1 - 0.75)
15009     const int numEnvFrames = (statics->nrTimesSamples-(int)frameLength*(1-OverlapCoeff)) /
15010 (int)(frameLength*OverlapCoeff)
15011     XFLOAT aAvgHighPowerDistortedPower
15012     CDoubleArray originalPower, distortedPower
15013     originalPower. SetSize (numEnvFrames)
15014     distortedPower. SetSize (numEnvFrames)
15015
15016     aAvgOriginalPower = 0
15017     aAvgDistortedPower = 0
15018     int startSample = 0
15019     for(int frameIndex = 0 frameIndex < numEnvFrames frameIndex++) {
15020         startSample = frameIndex * (int)(frameLength*OverlapCoeff)
15021         originalPower. m_pData[frameIndex] = alignFilteredOriginalTimeSeries. Envelope
15022 (POLQAHandle, startSample, frameLength)
15023         distortedPower. m_pData[frameIndex] = alignFilteredDistortedTimeSeries. Envelope
15024 (POLQAHandle, startSample, frameLength)
15025     }
15026     matbSqr1(originalPower. m_pData, numEnvFrames)

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```

15021     matbSqr1(distortedPower.m_pData, numEnvFrames)
15022
15023     aAvgOriginalPower = matMean(originalPower.m_pData, numEnvFrames)
15024     aAvgDistortedPower = matMean(distortedPower.m_pData, numEnvFrames)
15025
15026     aAvgActiveOriginalPower = 0.0
15027     aAvgActiveDistortedPower = 0.0
15028     int numberOfActiveOriginalFrames = 0
15029     int numberOfActiveDistortedFrames = 0
15030
15031     for (int frameIndex = 0; frameIndex < numEnvFrames; frameIndex++) {
15032         if (distortedPower.m_pData[frameIndex] > (aAvgDistortedPower / 1.0E4)) {
15033             aAvgActiveDistortedPower += distortedPower.m_pData[frameIndex]
15034             numberOfActiveDistortedFrames++
15035         }
15036         if (originalPower.m_pData[frameIndex] > (aAvgOriginalPower / 1.0E4)) {
15037             aAvgActiveOriginalPower += originalPower.m_pData[frameIndex]
15038             numberOfActiveOriginalFrames++
15039         }
15040     }
15041
15042     aAvgActiveOriginalPower = numberOfActiveOriginalFrames > 0 ? aAvgActiveOriginalPower
/numberOfActiveOriginalFrames : 0.0
15043     aAvgActiveDistortedPower = numberOfActiveDistortedFrames > 0 ?
aAvgActiveDistortedPower/numberOfActiveDistortedFrames : 0.0
15044
15045     if (aListeningCondition==STANDARD_IRS) {
15046         globalScaleOriginalToFixedlevel = (XFLOAT) sqrt (10.0e6/(aAvgActiveOriginalPower+2000.0))
15047         globalScaleDistortedToFixedlevel = (XFLOAT) sqrt (10.0e6/(aAvgActiveDistortedPower+2000.0))
15048     } else {
15049         globalScaleOriginalToFixedlevel = (XFLOAT) sqrt (6.0e6/(aAvgActiveOriginalPower+2000.0))
15050         globalScaleDistortedToFixedlevel = (XFLOAT) sqrt (6.0e6/(aAvgActiveDistortedPower+2000.0))
15051     }
15052
15053     aGlobalScaleOriginal = globalScaleOriginalToFixedlevel
15054     aGlobalScaleDistorted = min(CalibrationDb, 30.0)
15055
15056     if (Mode & RESF_LEVEL_ALIGN)
15057     {
15058         aGlobalScaleOriginal= globalScaleOriginalToFixedlevel
15059         aGlobalScaleDistorted= globalScaleDistortedToFixedlevel
15060     }
15061
15062     if (aListeningCondition==STANDARD_IRS) {
15063         aOriginalTimeSeries *= (1.7*aGlobalScaleOriginal)
15064         aDistortedTimeSeries *= (1.7*aGlobalScaleDistorted)
15065     } else {
15066         aOriginalTimeSeries *= (1.0*aGlobalScaleOriginal)
15067         aDistortedTimeSeries *= (1.0*aGlobalScaleDistorted)
15068     }
15069
15070     aGlobalCompensation1 = (aAvgOriginalPower + 1.0) / (aAvgDistortedPower + 1.0)
15071     if (aGlobalCompensation1 < 1.0) aGlobalCompensation1 = 1.0
15072     aGlobalCompensation1 = pow(aGlobalCompensation1,0.2)
15073     aGlobalCompensation1loud = (aAvgDistortedPower + 1.0) / (aAvgOriginalPower + 1.0)
15074     if (aGlobalCompensation1loud < 1.0) aGlobalCompensation1loud = 1.0
15075     aGlobalCompensation1loud = pow(aGlobalCompensation1loud, 0.2)
15076
15077     aAvgActiveOriginalPower = 0.0
15078     aAvgActiveDistortedPower = 0.0
15079     aAvgHighPowerDistortedPower = 0.0
15080     for (int frameIndex = 0; frameIndex < numEnvFrames; frameIndex++) {
15081         if (originalPower.m_pData[frameIndex] > (aAvgOriginalPower / 3.0e3)) {
15082             aAvgActiveOriginalPower += originalPower.m_pData[frameIndex]
15083         }
15084         if (distortedPower.m_pData[frameIndex] > (aAvgDistortedPower / 3.0e3)) {
15085             aAvgActiveDistortedPower += distortedPower.m_pData[frameIndex]
15086         }

```

```

15087         if (distortedPower.m_pData[frameIndex] > ((aAvgDistortedPower*0.4) + 10.0)) {
15088             aAvgHighPowerDistortedPower += distortedPower.m_pData[frameIndex]
15089         }
15090     }
15091     aAvgActiveOriginalPower = numberOfActiveOriginalFrames > 0 ? aAvgActiveOriginalPower /
numberOfActiveOriginalFrames : 0.0
15092     aAvgActiveDistortedPower = numberOfActiveDistortedFrames > 0 ? aAvgActiveDistortedPower /
numberOfActiveDistortedFrames : 0.0
15093     crestFactorPAMD = (aAvgHighPowerDistortedPower + 500.0) / (aAvgActiveDistortedPower + 500.0)
15094     if (crestFactorPAMD > 920.0) crestFactorPAMD = 920.0
15095     HighPowerFactor = aAvgHighPowerDistortedPower
15096
15097     aAvgActiveOriginalPower = 0.0
15098     aAvgActiveDistortedPower = 0.0
15099     numberOfActiveOriginalFrames = 0
15100     numberOfActiveDistortedFrames = 0
15101     aAvgHighPowerDistortedPower = 0.0
15102
15103     for (int frameIndex = 0; frameIndex < numEnvFrames; frameIndex++) {
15104         if (originalPower.m_pData[frameIndex] > (aAvgOriginalPower / 1.0e3)) {
15105             aAvgActiveOriginalPower += originalPower.m_pData[frameIndex]
15106             numberOfActiveOriginalFrames++
15107         }
15108         if (distortedPower.m_pData[frameIndex] > (aAvgDistortedPower / 8.0e3)) {
15109             aAvgActiveDistortedPower += distortedPower.m_pData[frameIndex]
15110             numberOfActiveDistortedFrames++
15111         }
15112         if (distortedPower.m_pData[frameIndex] > ((aAvgDistortedPower*2.0) + 10.0)) {
15113             aAvgHighPowerDistortedPower += distortedPower.m_pData[frameIndex]
15114         }
15115     }
15116     aAvgActiveOriginalPower = numberOfActiveOriginalFrames > 0 ? aAvgActiveOriginalPower /
numberOfActiveOriginalFrames : 0.0
15117     aAvgActiveDistortedPower = numberOfActiveDistortedFrames > 0 ? aAvgActiveDistortedPower /
numberOfActiveDistortedFrames : 0.0
15118     crestFactor = (aAvgHighPowerDistortedPower + 100.0) / (aAvgActiveDistortedPower + 100.0)
15119     aGlobalCompensation3 = (numberOfActiveOriginalFrames + 1.0) / (numberOfActiveDistortedFrames +
1.0)
15120     if (aGlobalCompensation3 < 1.0) aGlobalCompensation3 = 1.0
15121
15122     aGlobalCompensationIntell = (numberOfActiveOriginalFrames + 0.1) /
(numberOfActiveDistortedFrames + 0.1)
15123     if (aGlobalCompensationIntell < 1.0) aGlobalCompensationIntell = 1.0
15124
15125     int InputFilterLength
15126
15127     XFLOAT* InputFilter = 0
15128     InputFilter = GetInputFilterFilter(statics->listeningCondition, (int)statics->sampleRate,
InputFilterLength)
15129
15130     if (aListeningCondition == STANDARD_IRS) {
15131         aOriginalTimeSeries.FilterWith(POLQAHandle, aOriginalTimeSeries, InputFilter,
InputFilterLength)
15132         aDistortedTimeSeries.FilterWith(POLQAHandle, aDistortedTimeSeries, InputFilter,
InputFilterLength)
15133     }
15134     else {
15135
15136         XFLOAT* InputFilterFB = 0
15137         InputFilterLength = 0
15138         InputFilterFB = GetFBFilter(aListeningCondition, (int)statics->sampleRate, InputFilterLength)
15139
15140         aOriginalTimeSeries.FilterWith(POLQAHandle, aOriginalTimeSeries, InputFilterFB,
InputFilterLength)
15141         aDistortedTimeSeries.FilterWith(POLQAHandle, aDistortedTimeSeries, InputFilterFB,
InputFilterLength)
15142         if(InputFilterFB)
15143             matFree(InputFilterFB)

```

```
15144
15145     }
15146
15147     if(AmplitudeAlignFilter)
15148         matFree(AmplitudeAlignFilter)
15149     if(InputFilter)
15150         matFree(InputFilter)
15151 }
15152 }
15153
```