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    $vX = sprintf("%.3f", (($x1-$mediaX)**2)+$vX );
    $vY = sprintf("%.3f", (($y1-$mediaY)**2)+$vY );
    $vZ = sprintf("%.3f", (($z1-$mediaZ)**2)+$vZ );

    $i++;
}until ( $i==scalar@estructuras);

    $xi = substr($estructuras[0], 31,8);
    $yi = substr($estructuras[0], 40,8);
    $zi = substr($estructuras[0], 47,8);

    $xf = substr($estructuras[scalar@estructuras-1], 31,8);
    $yf = substr($estructuras[scalar@estructuras-1], 40,8);
    $zf = substr($estructuras[scalar@estructuras-1], 47,8);

    $r2 = (($xi-$xf)**2+($yi-$yf)**2+($zi-$zf)**2)**0.5;
    #print $dist;

$titulo=@aguas2[$k];
$titulo=~ s/\n//g;

$tabla=sprintf("%4s %4s %4s %4s %4s %4s %4s %4s\n", "$titulo",
"$pX"/scalar@estructuras, "$pY"/scalar@estructuras,
"$pZ"/scalar@estructuras, "$vX"/scalar@estructuras,
"$vY"/scalar@estructuras, "$vZ"/scalar@estructuras, "$r2");

#print @aguas[$k];
print $tabla;
$k++;
    } until ($k+1 > scalar@aguas2);

#$xi = substr($estructuras[0], 31,8);
#$yi = substr($estructuras[0], 40,8);
#$zi = substr($estructuras[0], 47,8);

#$xf = substr($estructuras[scalar@estructuras-1], 31,8);
#$yf = substr($estructuras[scalar@estructuras-1], 40,8);
#$zf = substr($estructuras[scalar@estructuras-1], 47,8);

#$dist = (($xi-$xf)**2+($yi-$yf)**2+($zi-$zf)**2)**0.5;

#print "$xi $yi $zi $xf $yf $zf\n";
#print $estructuras[scalar@estructuras];
#print $pX/scalar@estructuras,"\n";
#print $pY/scalar@estructuras,"\n";
#print $pZ/scalar@estructuras,"\n";
#print $vX/scalar@estructuras,"\n";
#print $vY/scalar@estructuras,"\n";
#print $vZ/scalar@estructuras,"\n";
exit

```