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21. The device of claim 20 wherein said servo means is a low information rate digital servo.

22. A device having an accuracy enhanced electrical signal output and a reference input indicative of a predetermined standard, said device comprising:

an oscillator/clock unit having an electrical signal output, accuracy of which departs over time from the predetermined standard;

input means for receiving the reference input indicative of the predetermined standard;

processor means including a microprocessor for determining predicted accuracy variations of said output of said unit due to random deviations and systematic time offsets and based upon a comparison of said output of said unit with said reference input, said processor means being connected with said unit to receive said output therefrom and developing as an output from said processor means the accuracy enhanced electrical signal output that varies from said output from said unit based upon said predicted accuracy variations due to said random deviations and systematic time offsets as determined by said processor means, and said processor means also being connected with said input means to receive the reference input and comparing the reference input with the accuracy enhanced

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electrical signal output for updating said predicted accuracy variations upon receipt of the reference input by said input means; and

transmission link means connected with said processor means for receiving said accuracy enhanced electrical signal output from said processor means and coupling the accuracy enhanced electrical signal output to a utilization device connected with said transmission link means.

23. The device of claim 22 wherein said processor means also includes correction means connected with said unit and with said microprocessor for providing accuracy corrections to said output of said unit so that the accuracy enhanced electrical signal output is derived, and comparison means connected with said input means for receiving the reference input and with said correcting means for comparing the accuracy enhanced electrical signal output with the reference input and, responsive thereto, providing an output indicative of accuracy error, said comparison means also being connected with said microprocessor to provide said output indicative of accuracy error thereto for updating said predicted accuracy variations by said microprocessor.

24. The device of claim 23 wherein said correction means includes servo means.

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