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with the aid of an architecture manual understand the high level performance implications of common assembly patterns be able to make simple modifications to the x86 assembly language generated by a compiler

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the load flow problem consists of finding the set of voltages magnitude and angle which together with the network impedances produces the load flows that are known to be correct at the system terminals to start we view the power system as being a collection of buses connected together by lines

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load flow studies are important for power system planning and operation they involve solving nonlinear equations to determine the voltage magnitude and phase angle at each bus given the real and reactive power injections

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the angle between two line segments perpendicular before loading and meeting at the point at which strain on an element is defined may change under load the decrease in the angle is the shear strain figure and formula p 286

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$I_{na} \cos \phi$ In load $n \cos \phi$ 1 I_{na} to minimize $\tau_{total} d\tau_{total} \tau_0$ In load 1 a $\cos \phi$ 1 $\cos \phi$ 0 da $\cos \phi$ I_{na}^2
 $\cos \phi$ $I_{na} \cos \phi$ 1 a $\cos \phi$ 1 $\cos \phi$ 0 I_{na}^2 $\cos \phi$ $I_{na} \cos \phi$

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the load is a resistor and inductor in series determine real power apparent power reactive power power factor load component values w for r h for l if f 60 hz power factor example power source has $2 \text{ j}8\omega$ impedance in its leads it supplies a load of 1mw at 10kv 60hz

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wye connected system with balanced load a single phase equivalent circuit is used only phase a is drawn because the magnitude of currents and voltages are the same in each phase only the phase angles are different 120o phase shift the supply voltage is the line to neutral voltage

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the bar is subjected to concentrated loads at its ends and a variable external load distributed along its length this distributed load could for example represent the weight of the bar if it is in the vertical position or friction forces acting on the bar s surface

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