

- 1.1** **Personal computer:** Computer that emphasizes delivery of good performance to a single user at low cost and usually executes third-party software.
- Server:** Computer used for large workloads and usually accessed via a network.
- Embedded computer:** Computer designed to run one application or one set of related applications and integrated into a single system.

1.2

- a. Performance via Pipelining
- b. Dependability via Redundancy
- c. Performance via Prediction
- d. Make the Common Case Fast
- e. Hierarchy of Memories
- f. Performance via Parallelism
- g. Use Abstraction to Simplify Design

- 1.3** The program is compiled into an assembly language program, which is itself assembled into a machine-language program.

1.4

- a. $1280 \times 1024 \text{ pixels} = 1,310,720 \text{ pixels} \Rightarrow 1,310,720 \times 3 = 3,932,160 \text{ bytes/frame}$.
- b. $3,932,160 \text{ bytes} \times (8 \text{ bits/byte}) / 100\text{E}6 \text{ bits/second} = 0.31 \text{ seconds}$.

1.5

Desktop Processor	Year	Tech	Max. Clock Speed (GHz)	Integer IPC/core	Cores	Max. DRAM Bandwidth (GB/s)	SP Floating Point (Gflop/s)	L3 cache (MB)
Westmere (7-620)	2010	32	3.33	4	2	17.1	107	4
Ivy Bridge (7-3770K)	2013	22	3.90	6	4	25.6	250	8
Broadwell (7-6700K)	2015	14	4.20	8	4	34.1	269	8
Kaby Lake (7-7700K)	2017	14	4.50	8	4	38.4	288	8
Coffee Lake (7-9700K)	2019	14	4.90	8	8	42.7	627	12
Imp./year		20%	4%	7%	15%	10%	19%	12%
Doubles every		4 years	18 years	10 years	5 years	7 years	4 years	6 years

Patterson And Hennessy Solution Manual

**Teofilo Gonzalez, Jorge Diaz-
Herrera, Allen Tucker**



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features sizes 4 ½ 16 enhanced internal flow low hoop stresses on coupling thanks to tighter thread tolerances 20 bevel for smooth horizontal installation enhanced structural capacity same as pipe body

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api buttress btc connections are available in pipe sizes 4 1 2 through 20 figure 1 2 btc connections larger than 13 3 8 od can be subject to cross threading extreme care in the field can ensure the proper make up of the larger sizes the shear resistant large thread cross section and easy running characteristics of btc make it

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the btc thread has higher joint and bending strengths than ltc or stc as a result this thread is often used in deeper wells where higher hook loads are experienced thread compound must also be used to obtain a seal with btc btc is also run in horizontal wells where doglegs can cause high bending loads on larger casings

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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is

suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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casing pipe dimensions and weight chart for api round thread and buttress thread lables outside diameter nominal linear mass t c wall thickness inside diameter drift diameter calculated mass c plain end mass gain or loss due to end finishing lb round thread buttress thread 1 2 00 d in lb ft t in d in in lb ft short long rc scc

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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btc buttress threading this thread is designed to improve axial tensile or axial compressive load capacity and to provide leakage resistance ltc stc and btc are the same in appearance how to distinguish them that depends the outside diameter and application what s the use of ltc stc and btc

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api couplings and threads must comply with c 32 and c 33 or e 32 and e 33 below are two common api coupling dimensions
btc for casing and eue for tubing api buttress casing couplings dimensions btc casing coupling api external upset tubing
coupling dimensions eue tubing coupling other requirements in api 5ct standard 1 appearance quality

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and thread inspection of casing tubing and line pipe threads upstream segment api specification 5b fifteenth edition april
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