An Example

Function Type	Estimated Count	Weight	FP-Count
EI	24	(Average) 4	96
ЕО	16	(Average) 5	80
EQ	22	(Average) 4	88
ILF	4	(Average) 10	40
ELF	2	(Average) 7	14
UFP count			318

An Example (Cont'd)

VAF =
$$52 * 0.01 + 0.65$$

= 1.17
FP_{estimated} = 318×1.17
= 372

General System Characteristics (GSCs)		Degree of Influence (DI) 0 - 5	
1.	Data Communications	2	
2.	Distributed Data Processing	0	
3.	Performance	5	
4.	Heavily Used Configuration	5	
5.	Transaction Rate	2	
6.	Online Data Entry	4	
7.	End-User Efficiency	3	
8.	Online Update	5	
9.	Complex Processing	<u>4</u>	
10.	Reusability	5	
11.	Installation Ease	4	
12.	Operational Ease	3	
13.	Multiple Sites	4	
14.	Facilitate Change	5	
	Total Degree of Influence (TDI)	52	
	Value Adjustment Factor (VAF)	1.1 7	

Problems of FPA

- FPA has been criticized as not being universally applicable to all types of software.
 - For example, FPA doesn't capture all functional characteristics of real-time software

Problems of FPA (Con'd)

- FP metrics are derived from a set of steps, rules and formulas. So they are algorithmic metrics and so, have these problems:
 - Algorithmic metrics are difficult to interpret and the reasons for the assignments of specific weights are not clear

Problems of FPA (Con'd)

- The value of the output of the formula is useful only if the formula is based on a solid theory such as physics, but this is not the case for FP
- The FP definition itself, has not been clarified and has generated some confusion among both practitioners and academics
- What is a metric if it is only a number?

Other Variants of FPA

- FP was originally designed to be applied to business information systems applications.
 - So, the data dimension was emphasized.
 - So, FPA was inadequate for many engineering and embedded systems.

Other Variants of FPA (Cont'd)

Feature Point

- Is a superset of FP
- Suitable for real-time, process-control and embedded software applications tend to have high algorithmic complexity
- This method counts a new software characteristics: "algorithms"