

Univerzitet u Novom Sadu Fakultet Tehničkih Nauka Katedra za računarsku tehniku i međuračunarske komunikacije

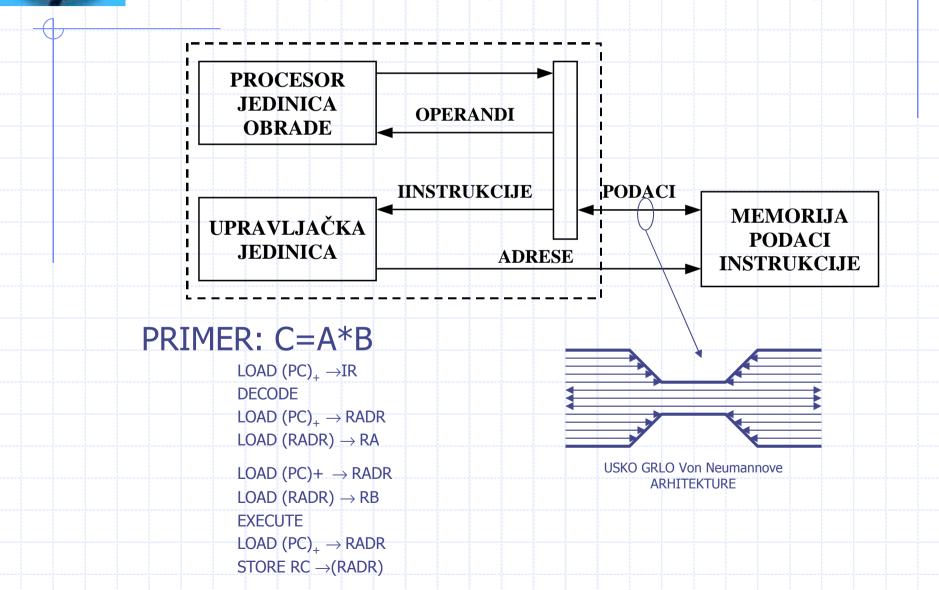


Algoritmi i arhitekture DSP I

ARHITEKTURA DIGITALNIH PROCESORA ZA OBRADU SIGNALA

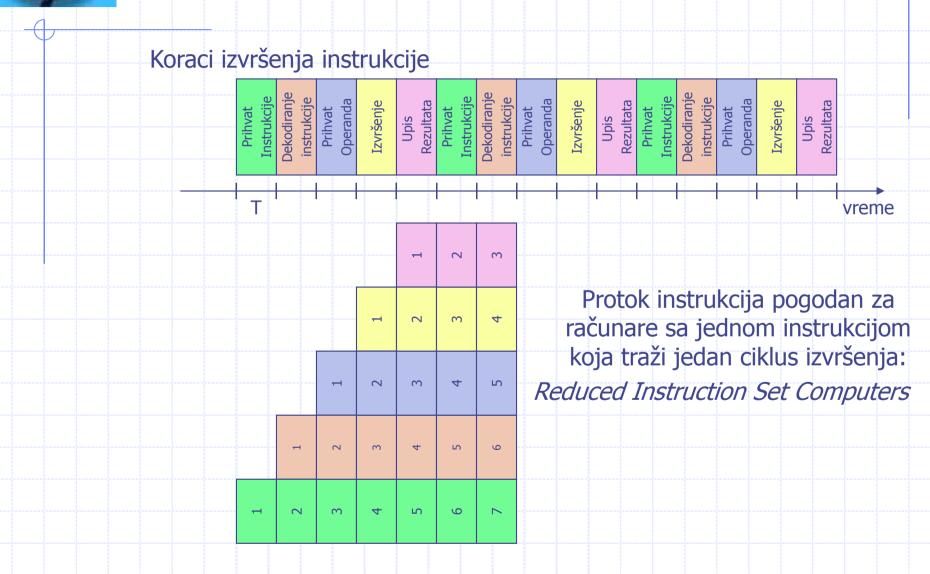


VON NEUMANNOVA ARHITEKTURA



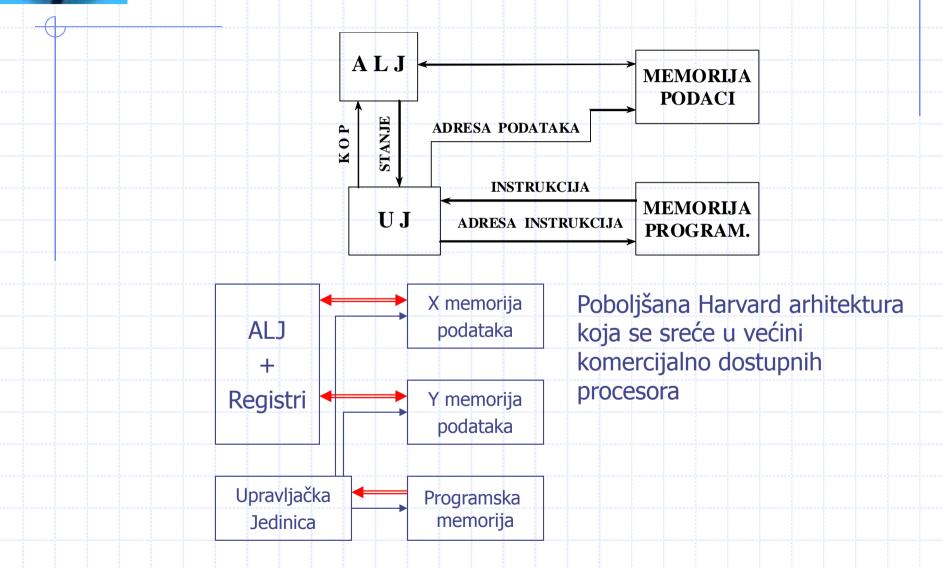


PROTOČNA ARHITEKTURA



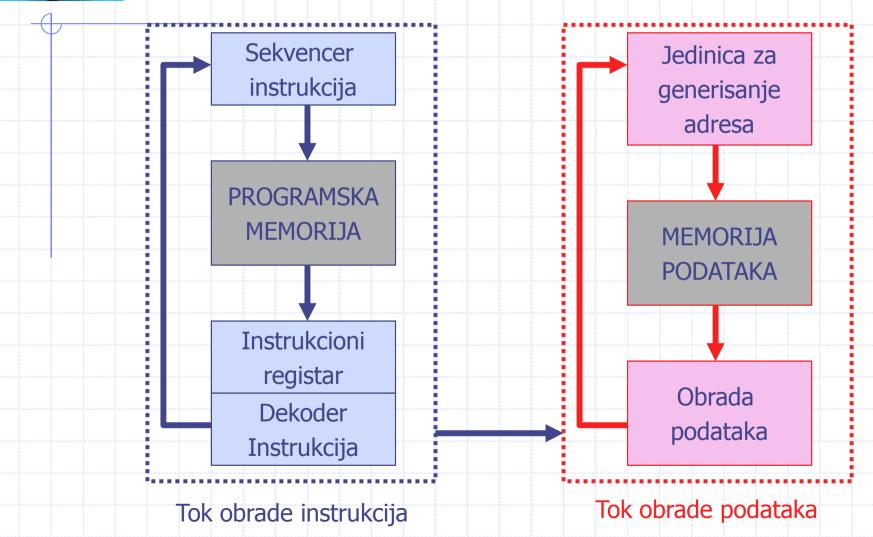


HARVARD ARHITEKTURA





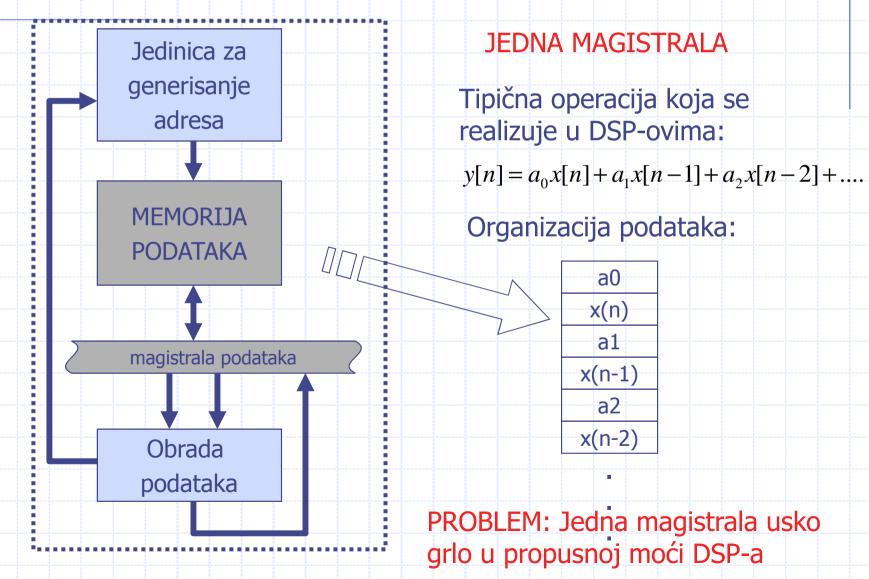
NEZAVISNI PUTEVI INSTRUKCIJA I PODATAKA



Single Instruction Single Data – Jedna instrukcija jedan podatak

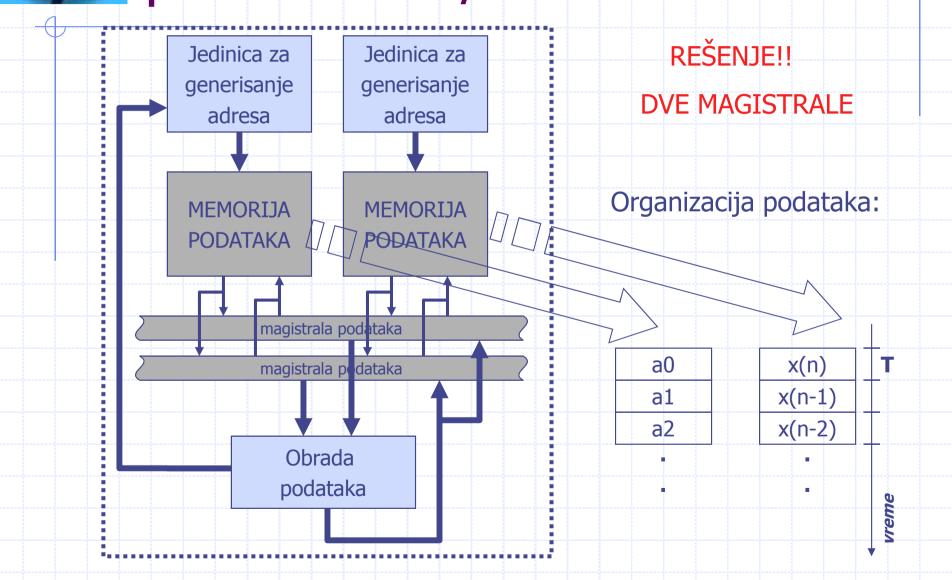


Koliko magistrala/memorija podataka? 1/2





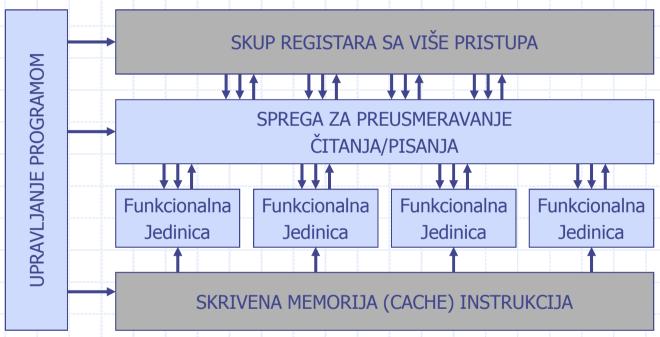
Koliko magistrala/memorija podataka? 2/2





DALJA POVEĆANJA PERFORMANSE - VLIW

Very Long Instruction Word – vrlo dugačka instrukciona reč

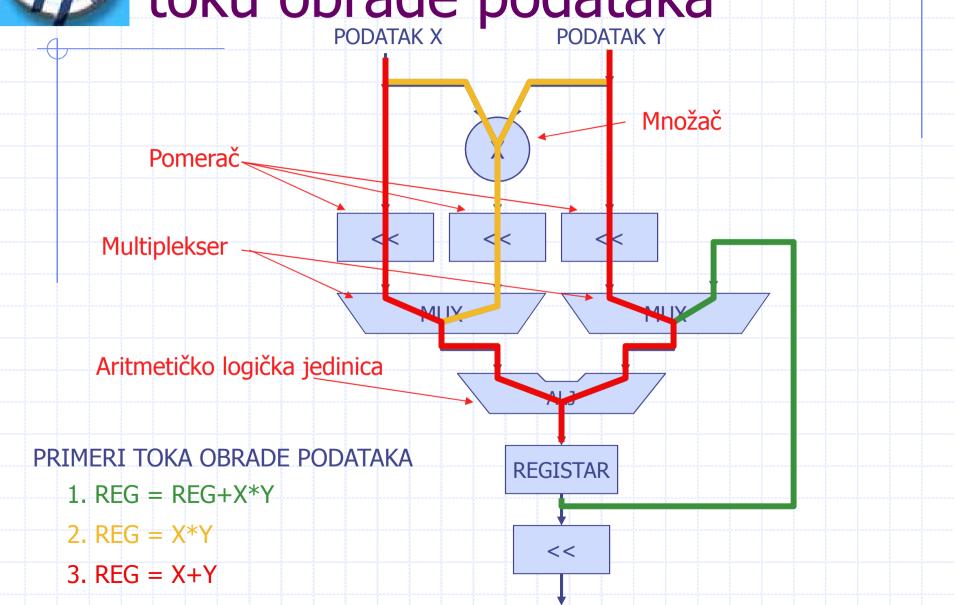


FORMAT VLIW INSTRUKCIJE

×	Rukovanje	Funkcionalna	Funkcionalna	
	upisom i čitanjem	Jedinica	Jedinica	Upravljanje
	(Load/Store)	ALJ	MNOŽENJE	

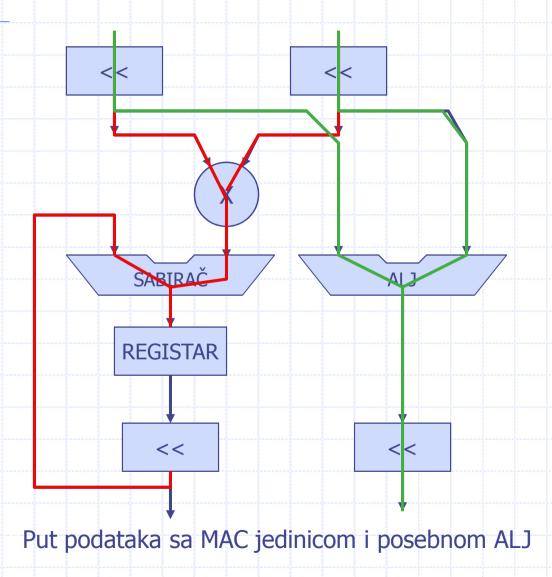


Elementi fizičke arhitekture u toku obrade podataka





Paralelizam u toku obrade podataka





Koncept deljene ALJ

