Memory Address

Address Tag	Set Index	Line Offset
n-1…s+l	s+l-1…l	l-1…0

Set 0, Way 0	Set 0, Way 1	…	Set 0, Way W-1
Set 1, Way 0	Set 1, Way 1	…	Set 1, Way W-1
⋮	⋮	⋱	⋮
Set i, Way 0	Set i, Way 1	…	Set i, Way W-1
⋮	⋮	⋱	⋮
Set S-1, Way 0	Set S-1, Way 1	…	Set S-1, Way W-1

Way 0   Way 1   …   Way W-1

Tag	Line	Tag	Line		Tag	Line

Tag Comparator

Matched Line

Match?

Matched Word