

Algoritmos e Programação de Computadores

Disciplina 113476

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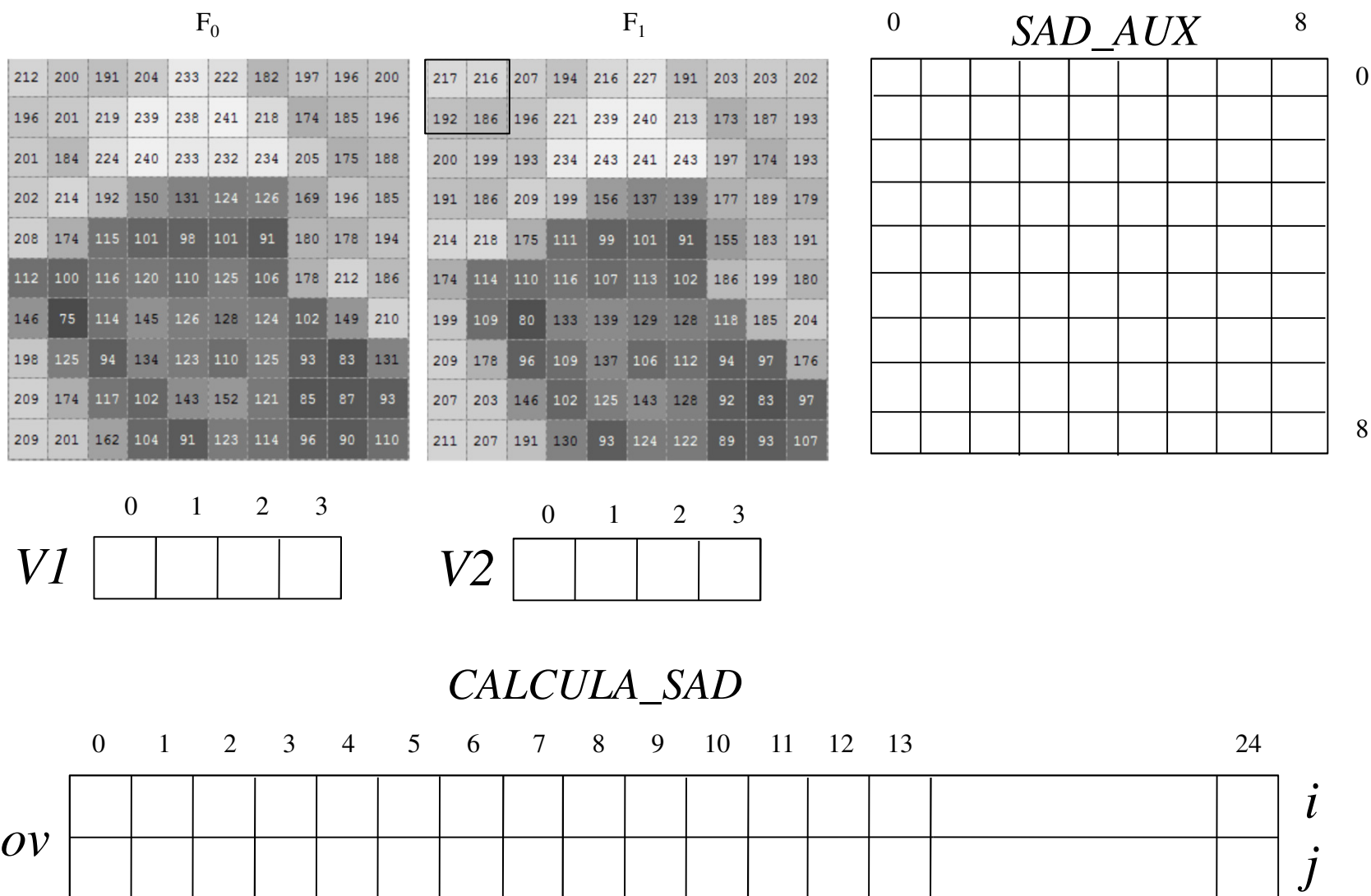
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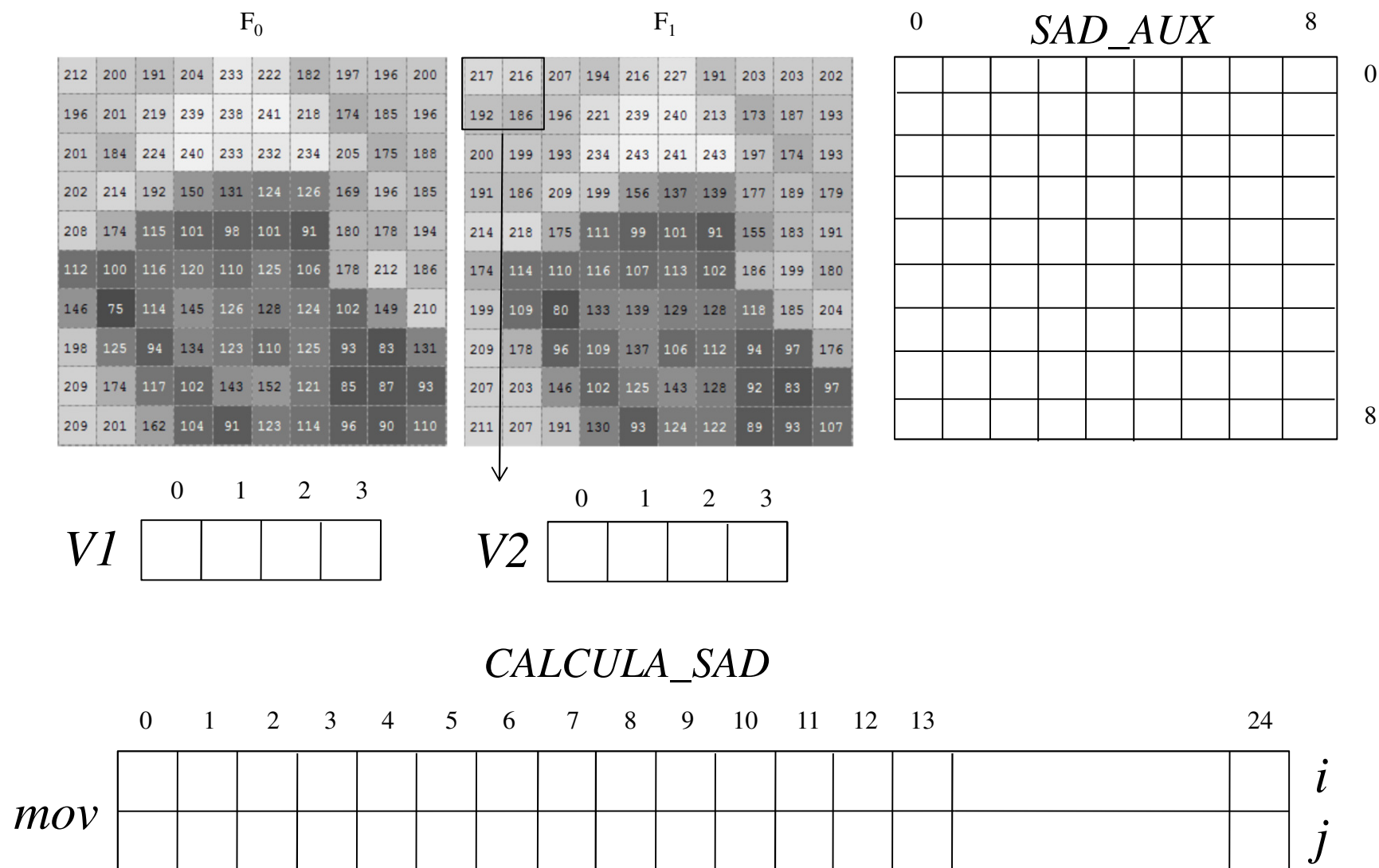
Universidade de Brasília
Instituto de Ciências Exatas
Departamento de Ciência da Computação

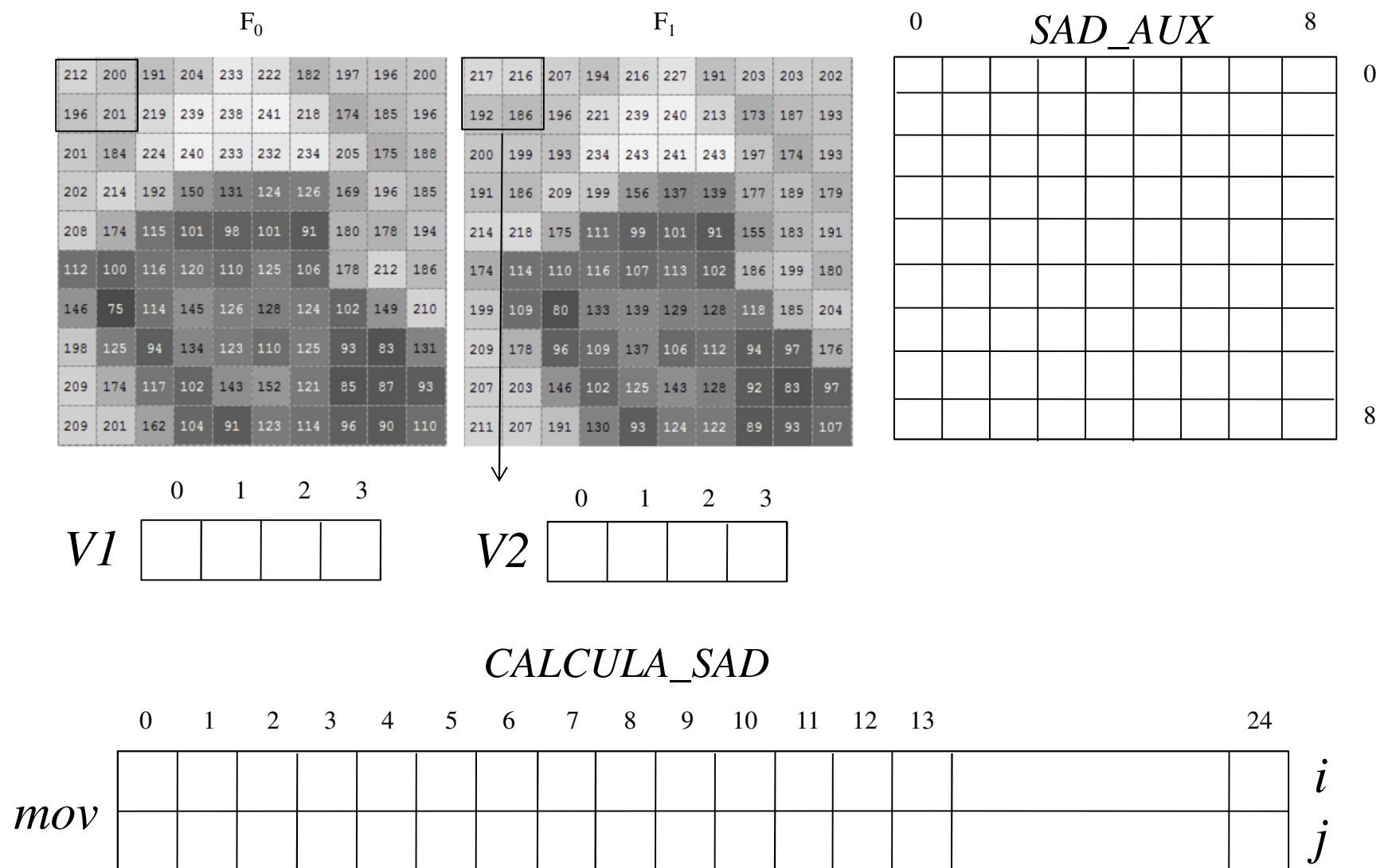
Prática de Laboratório Extra 01

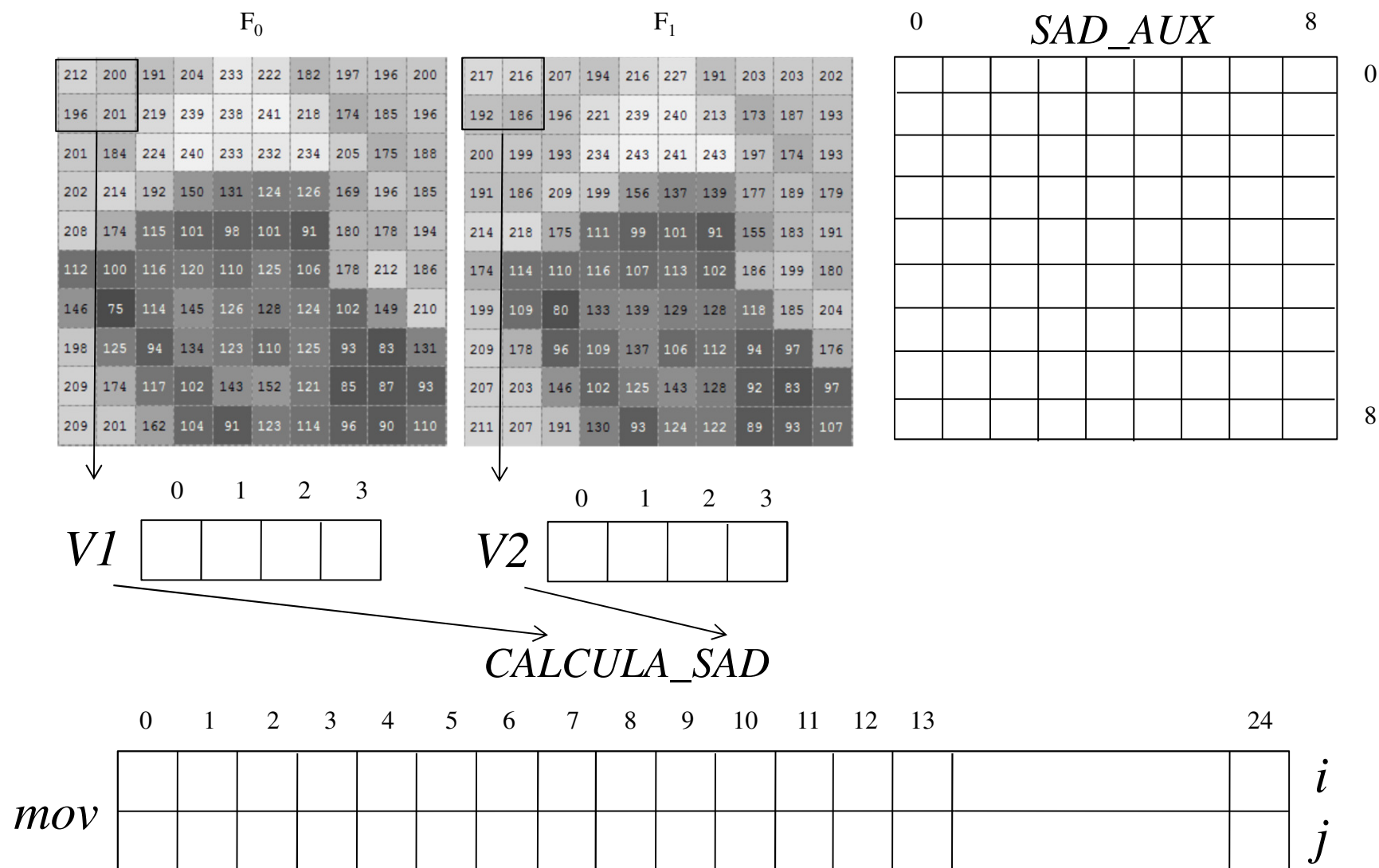
Full Search Algorithm

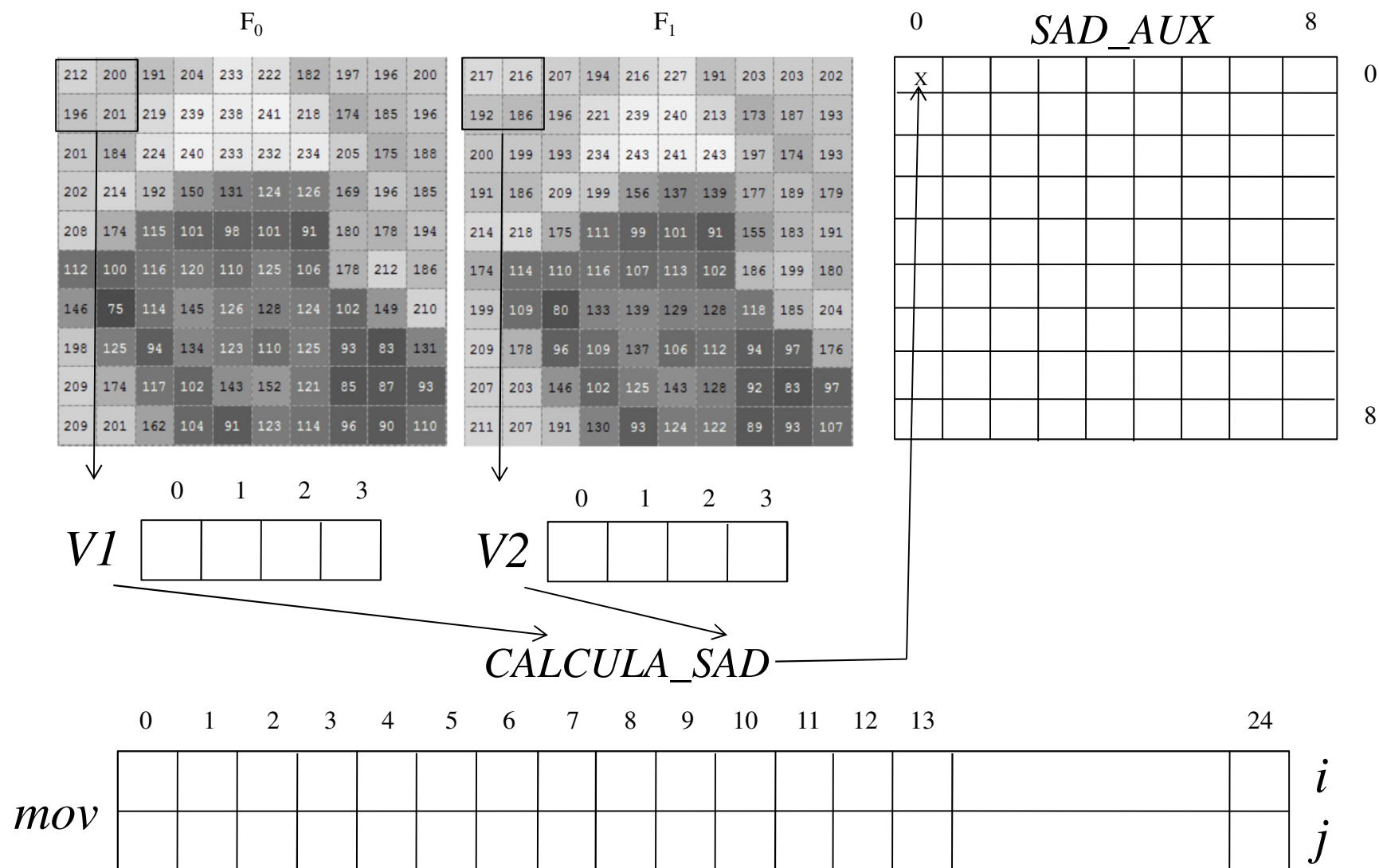


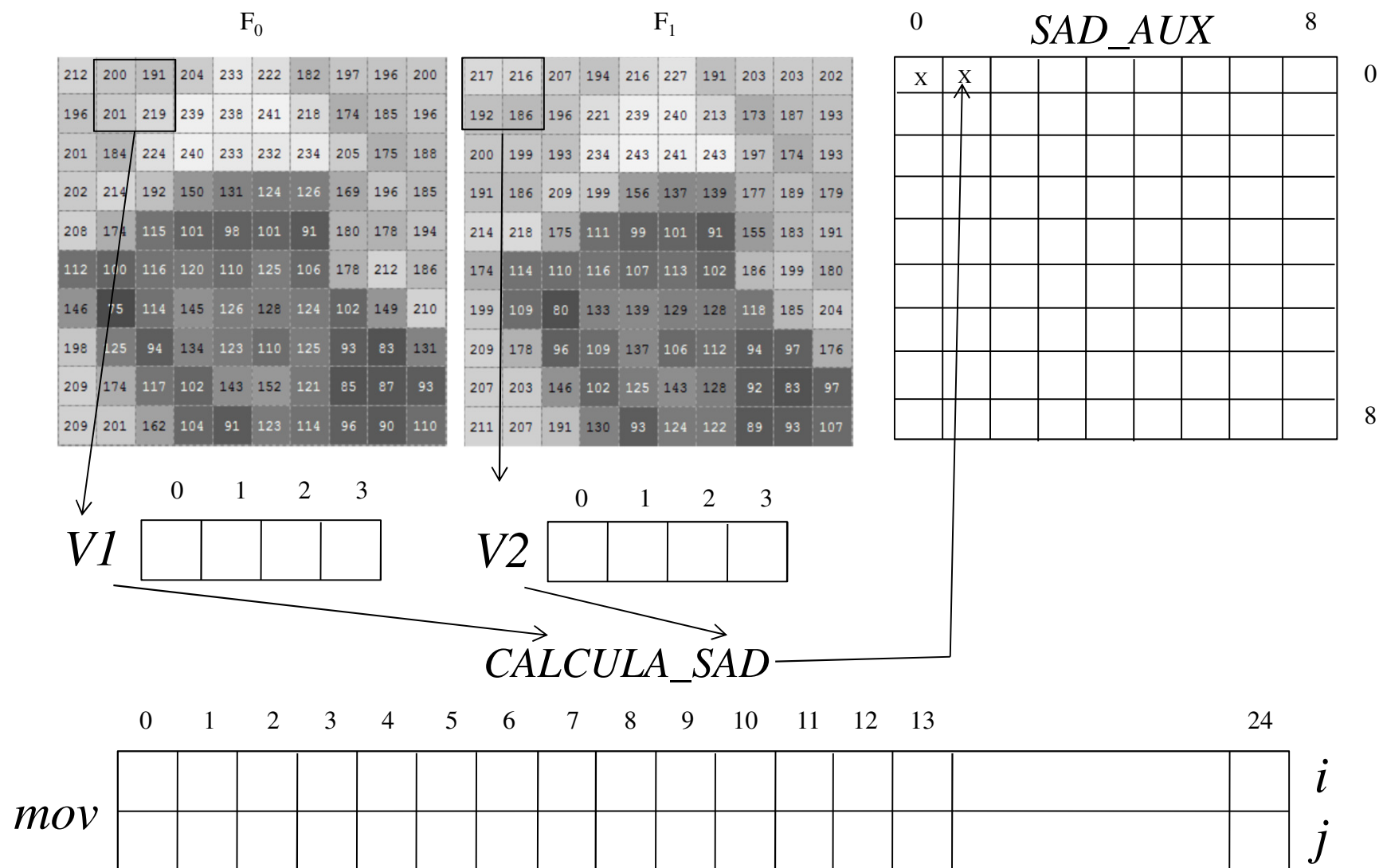


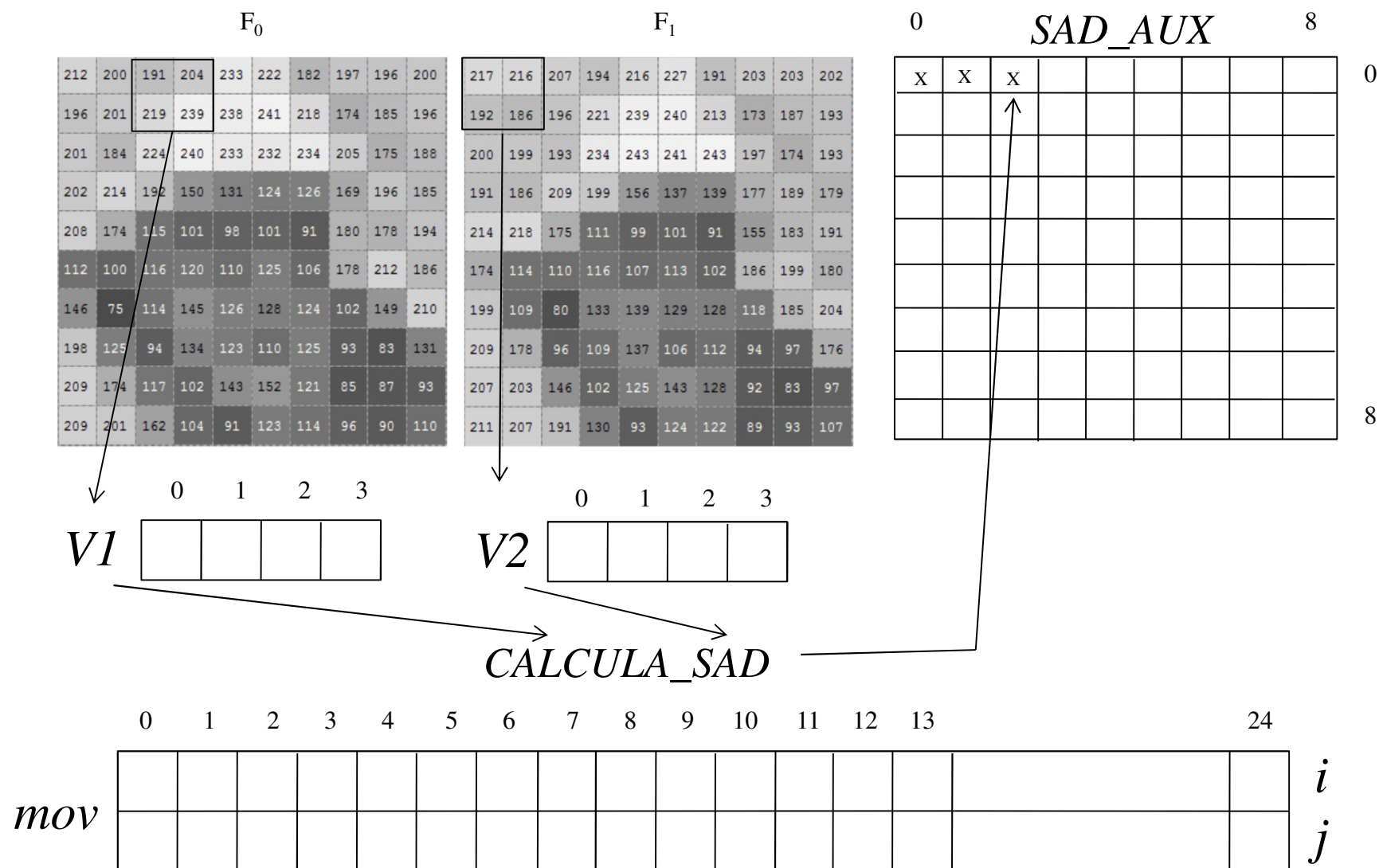


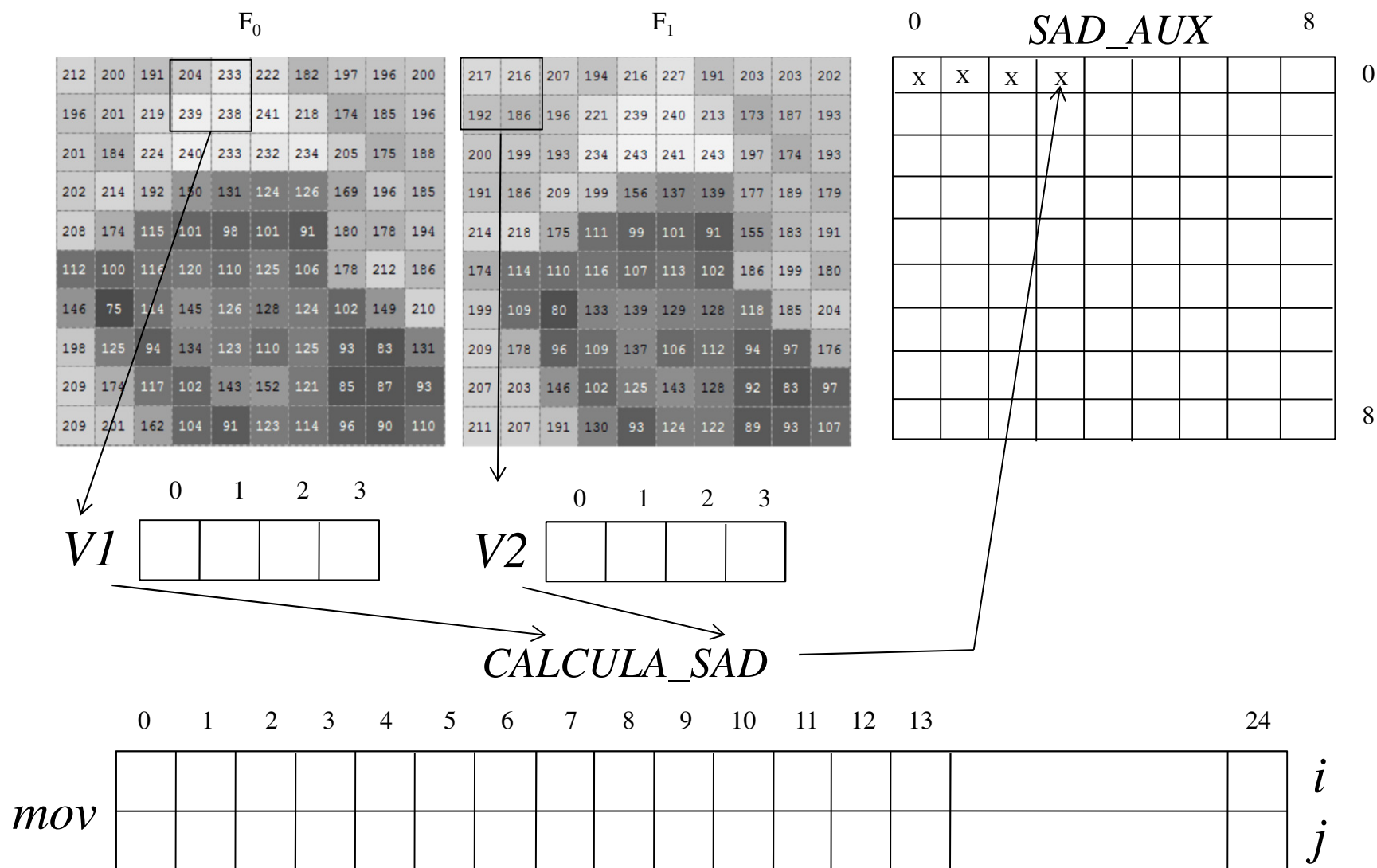


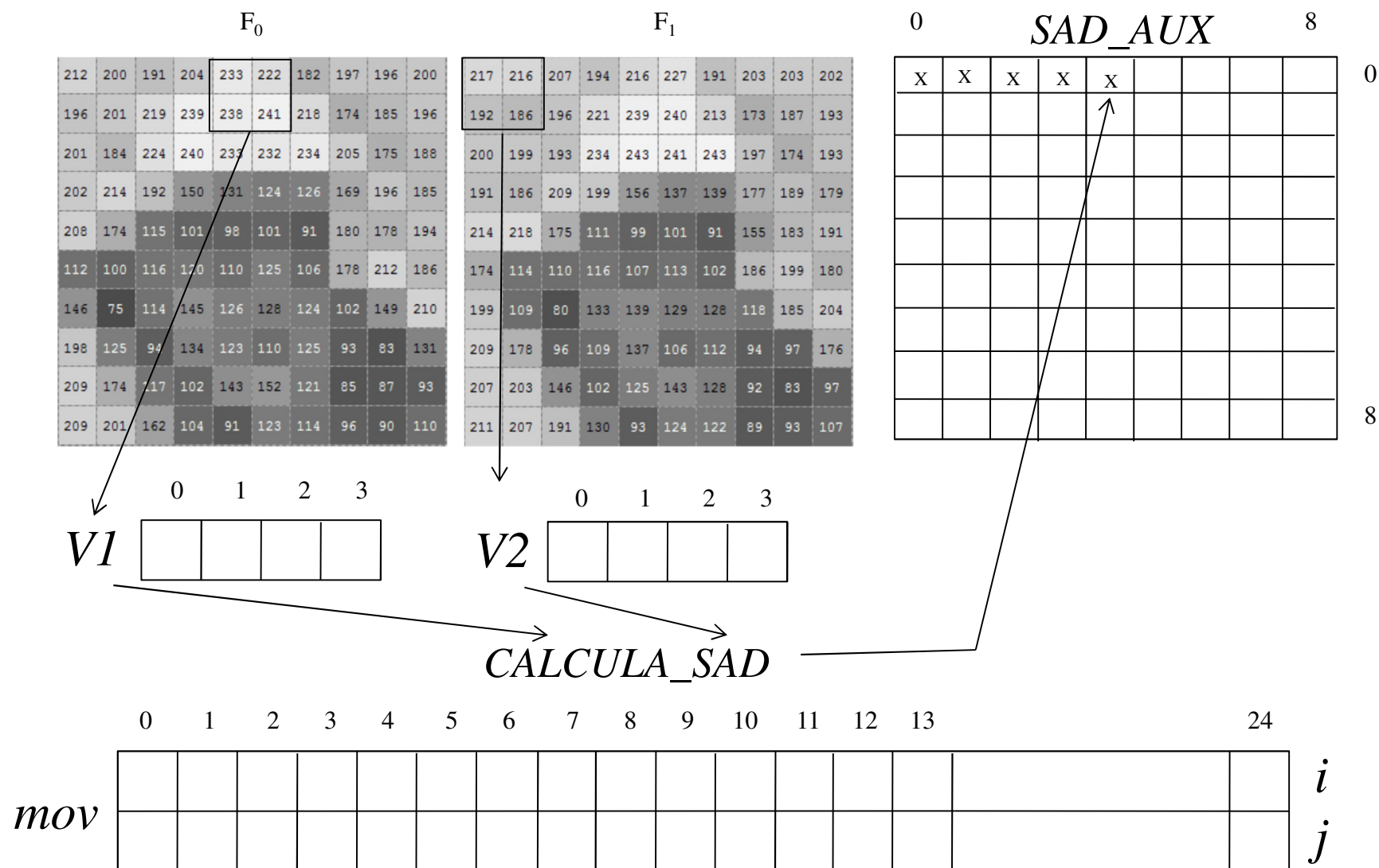


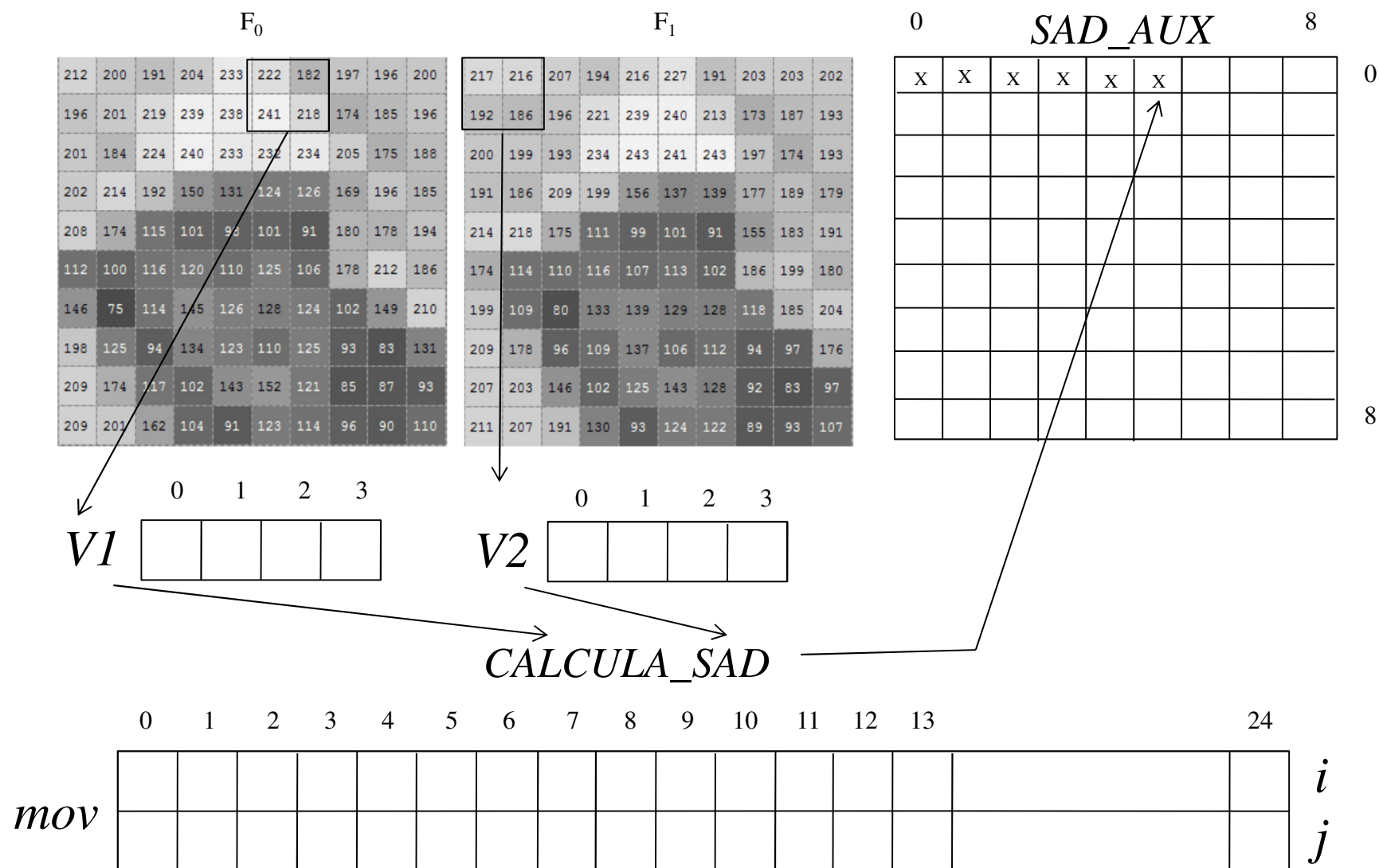


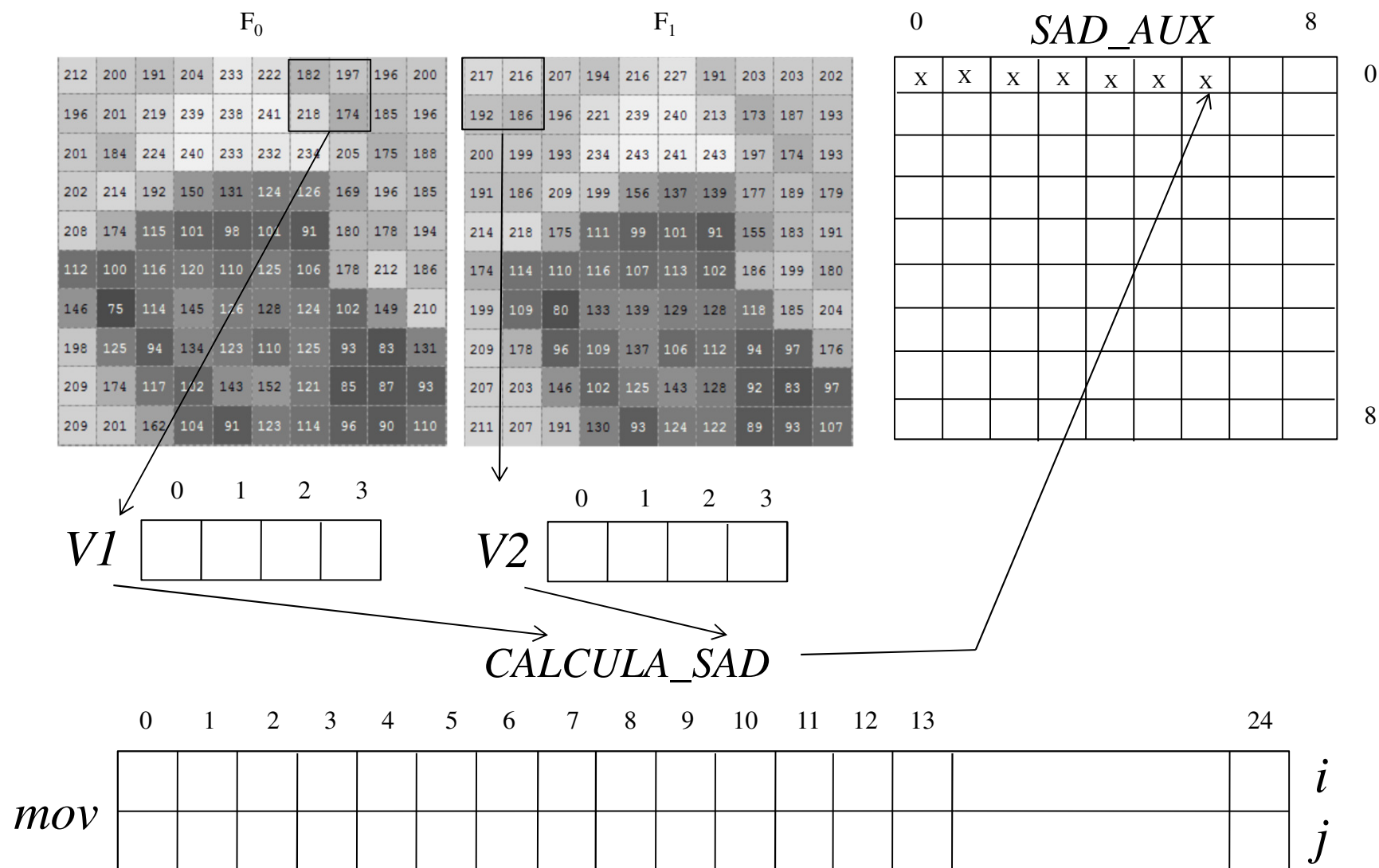


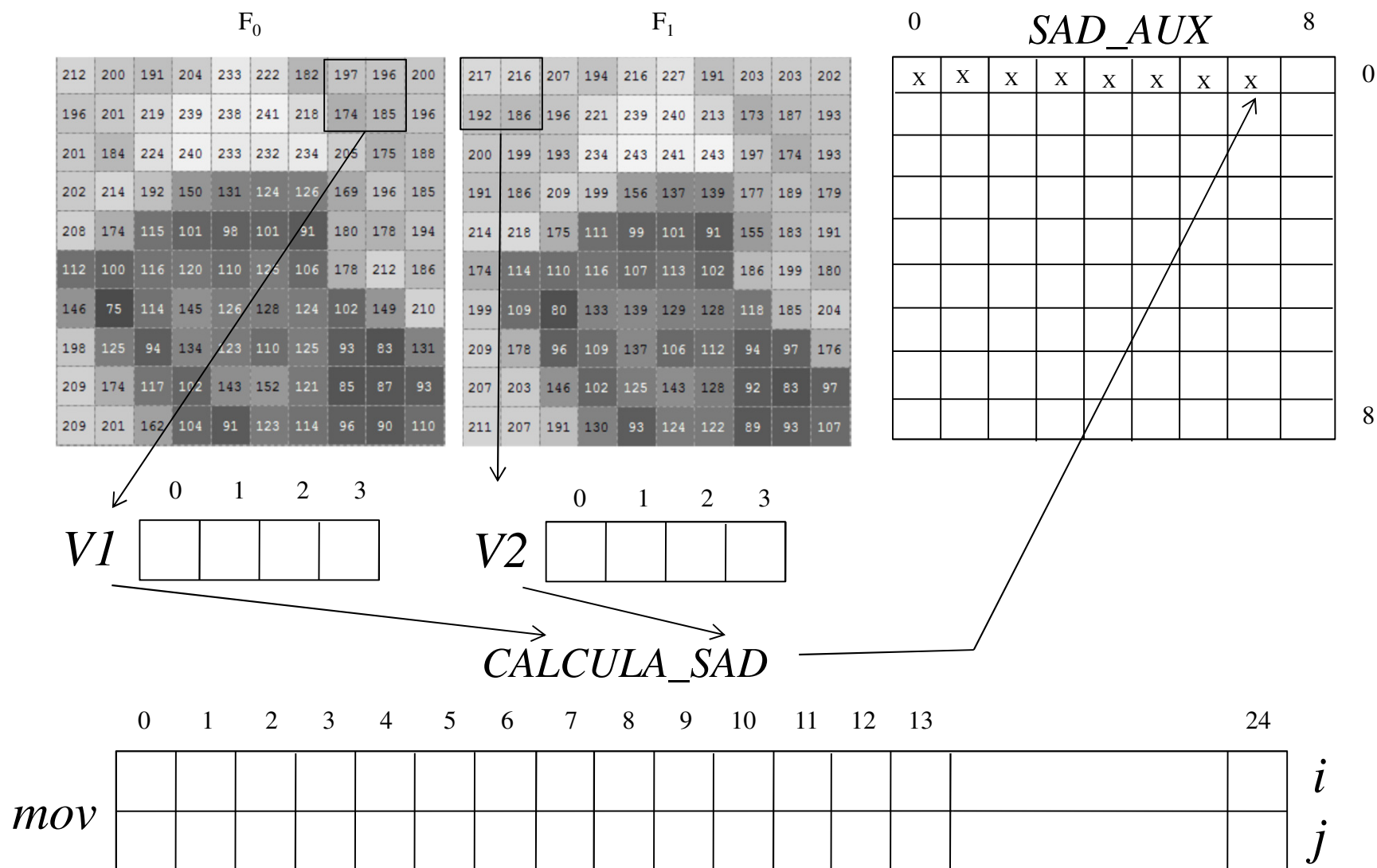


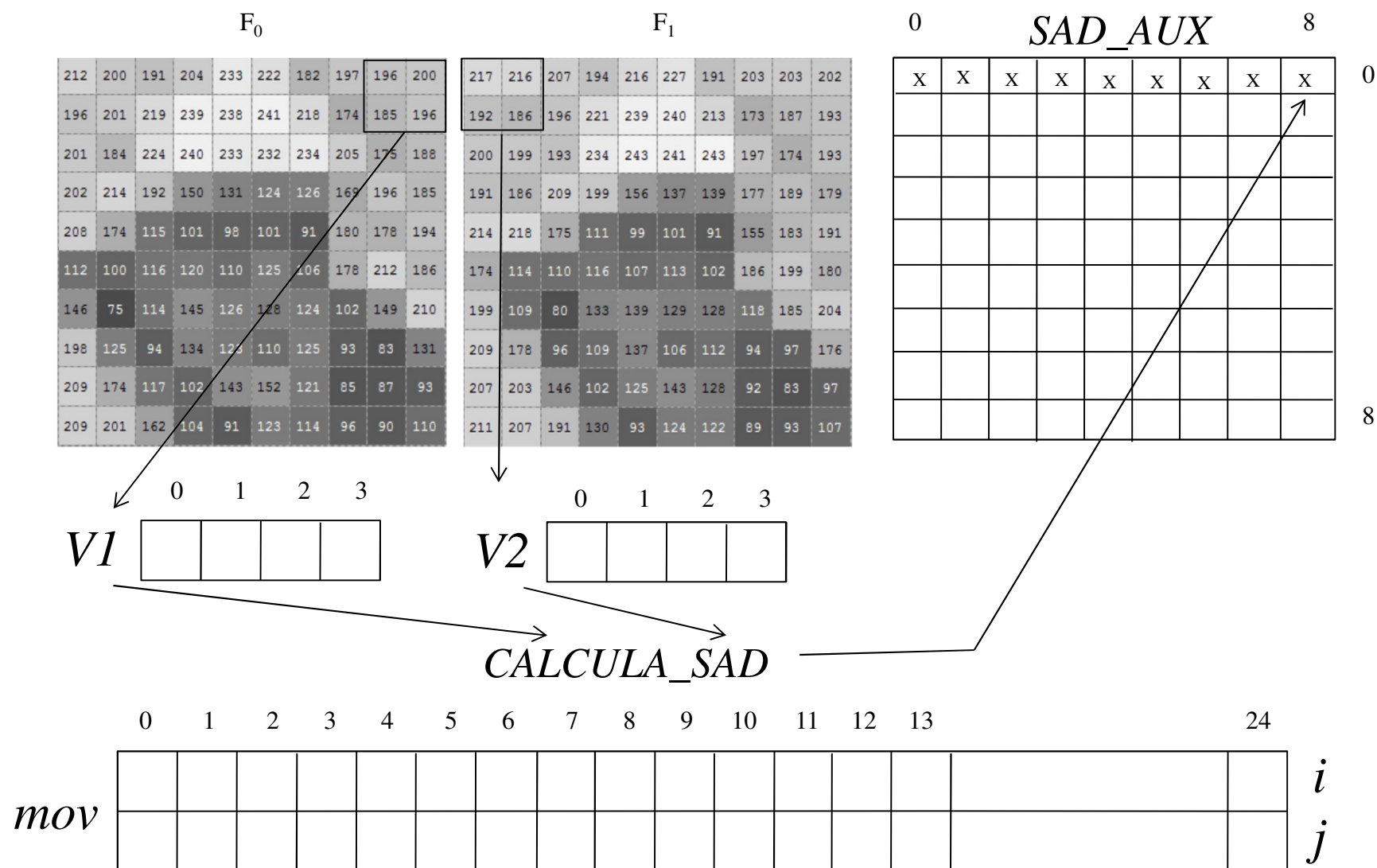


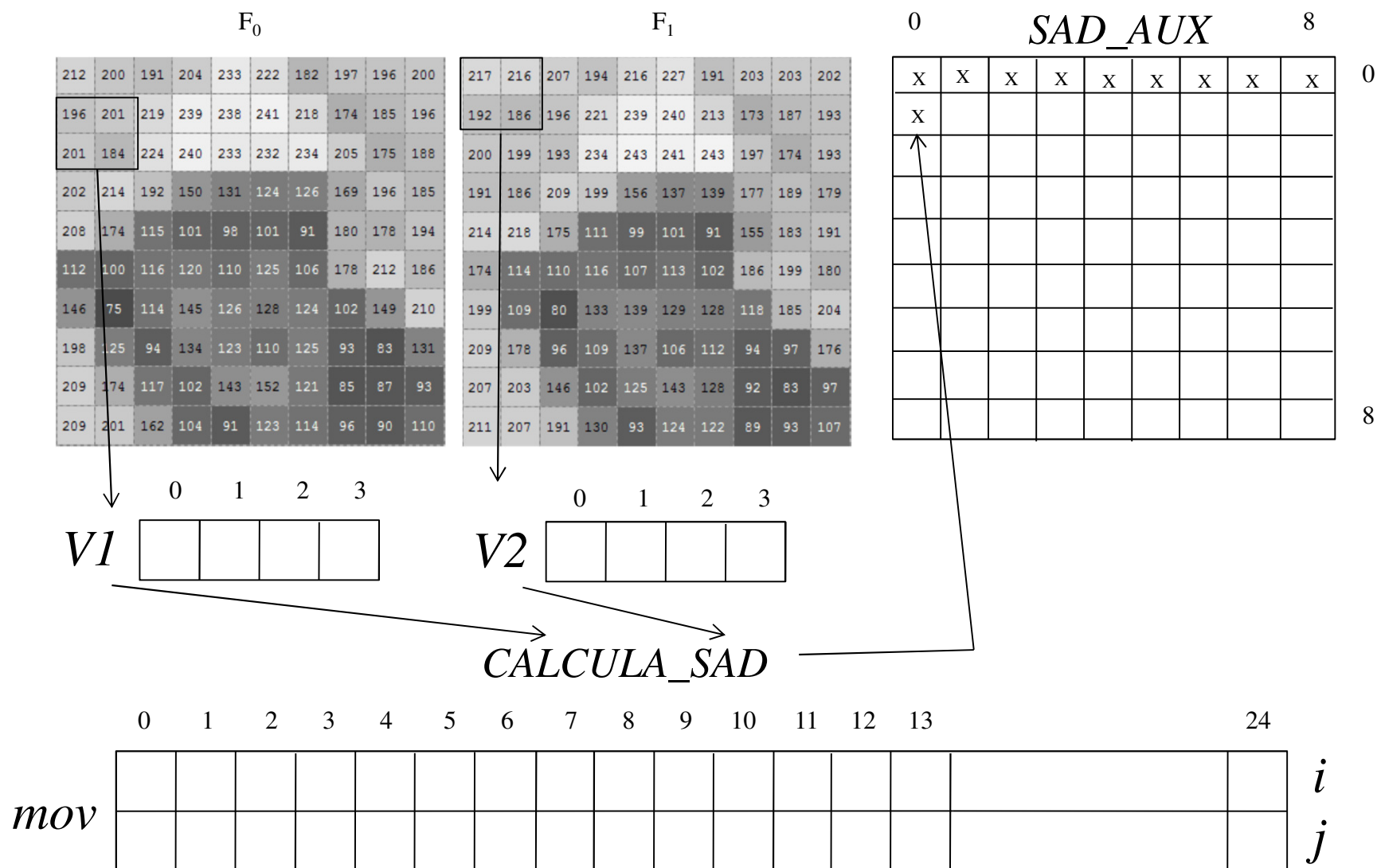


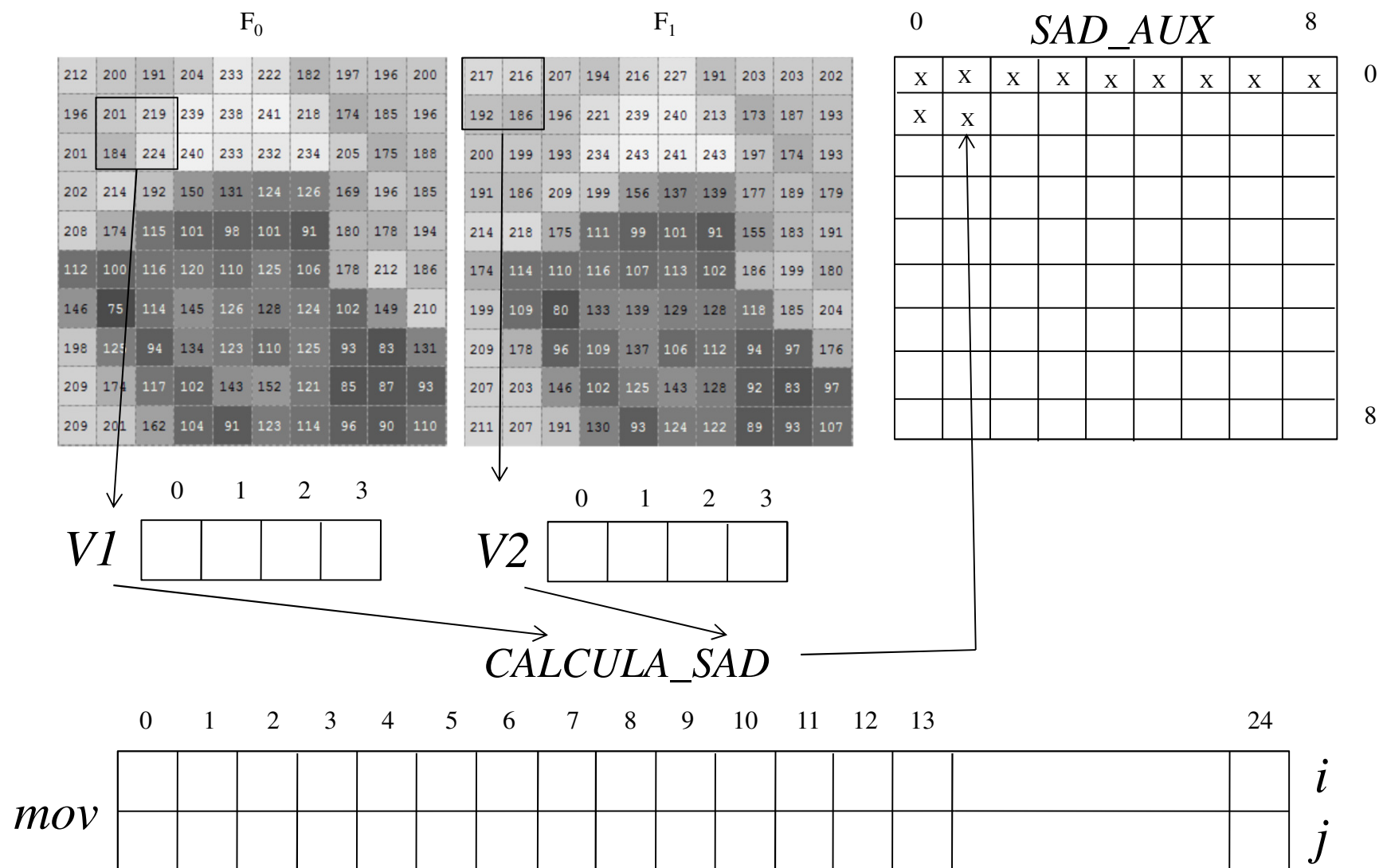


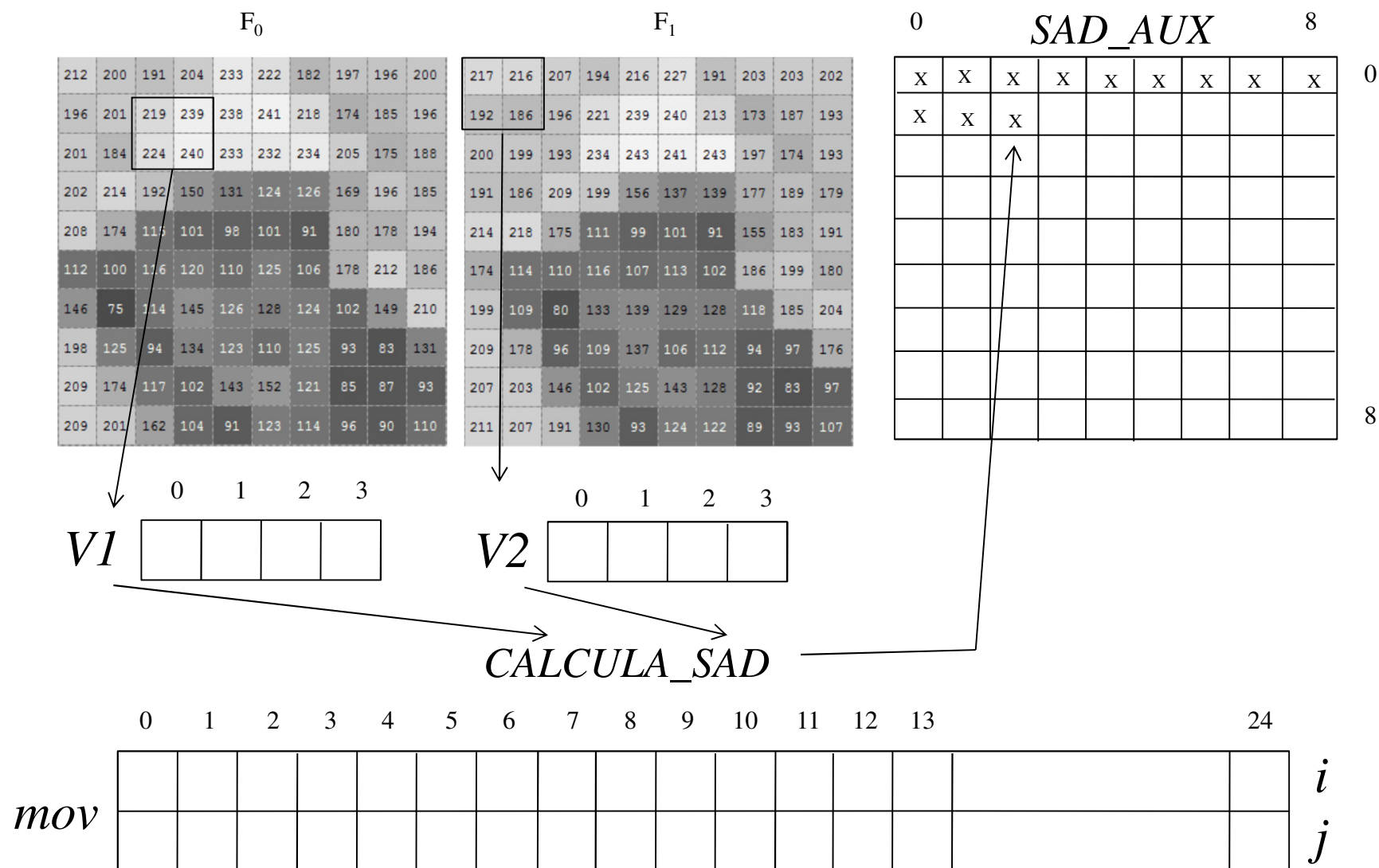


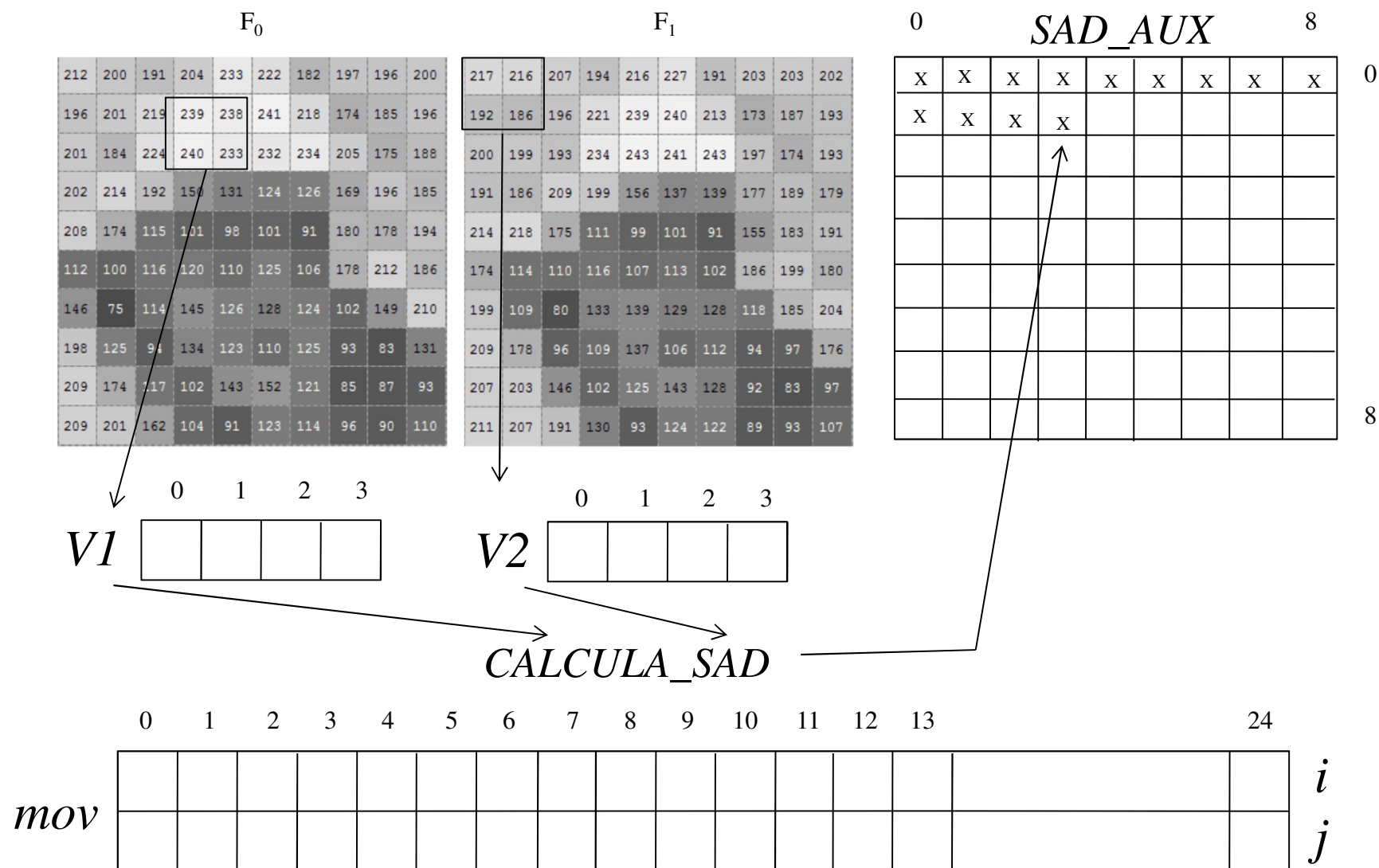


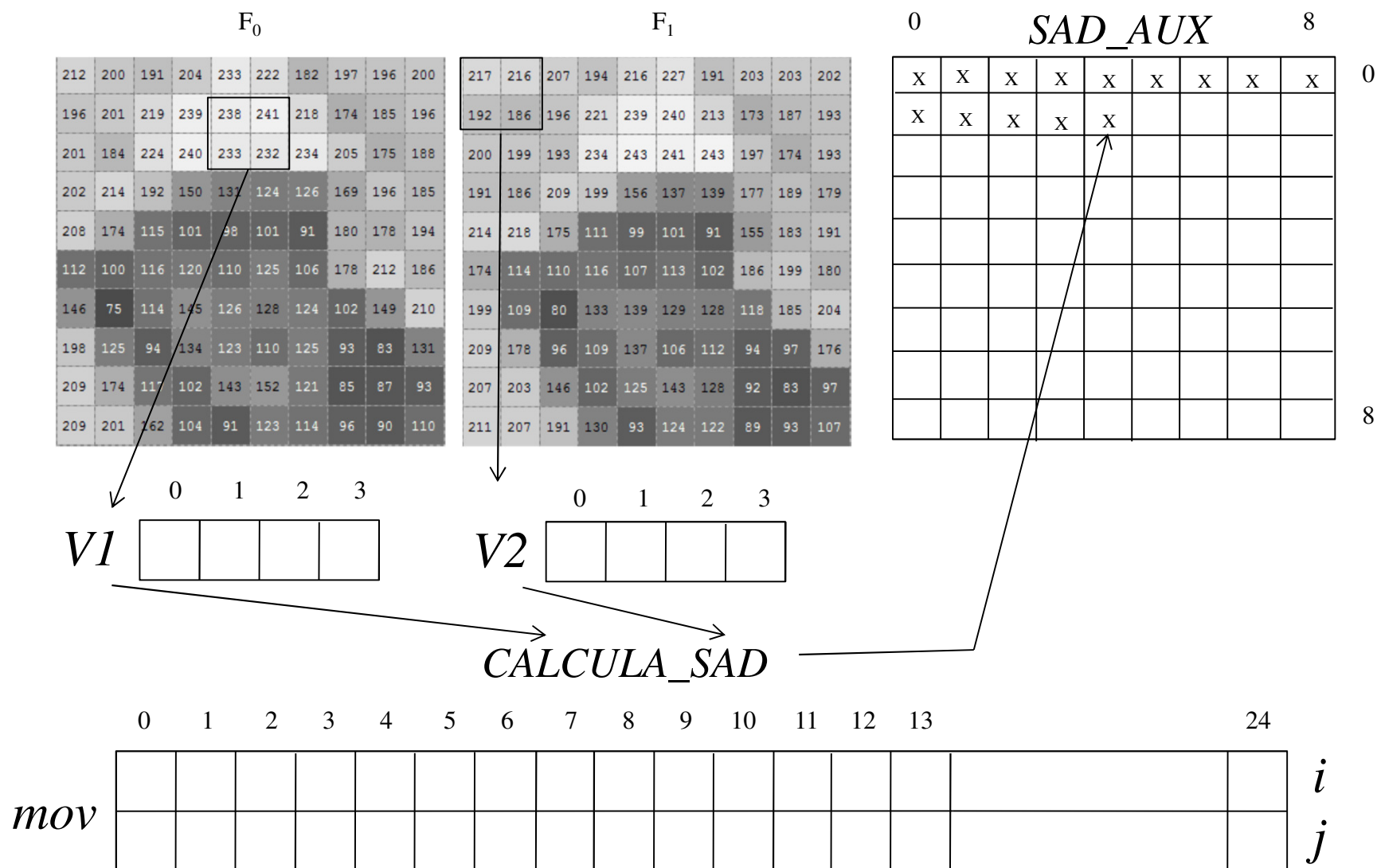


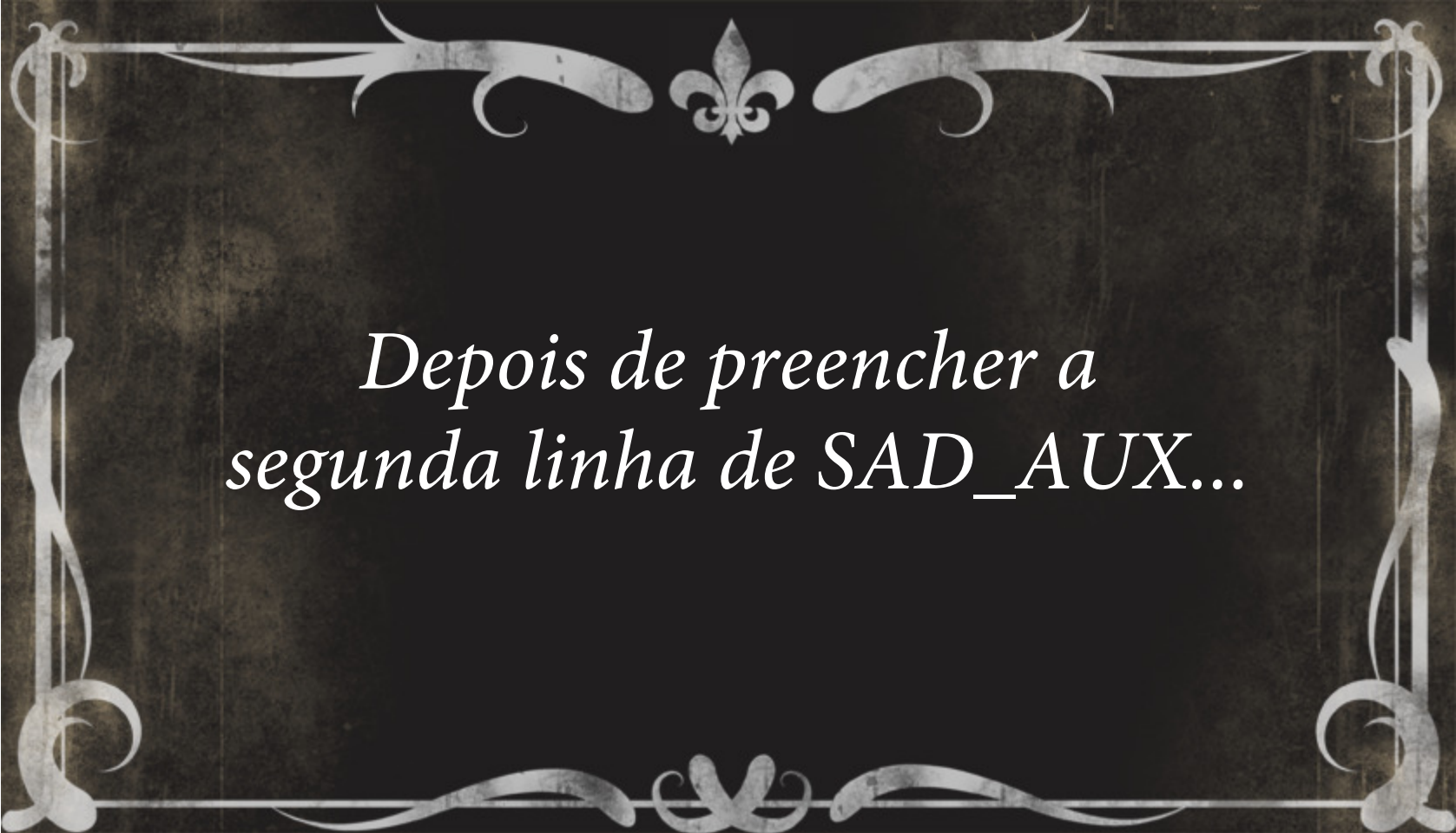




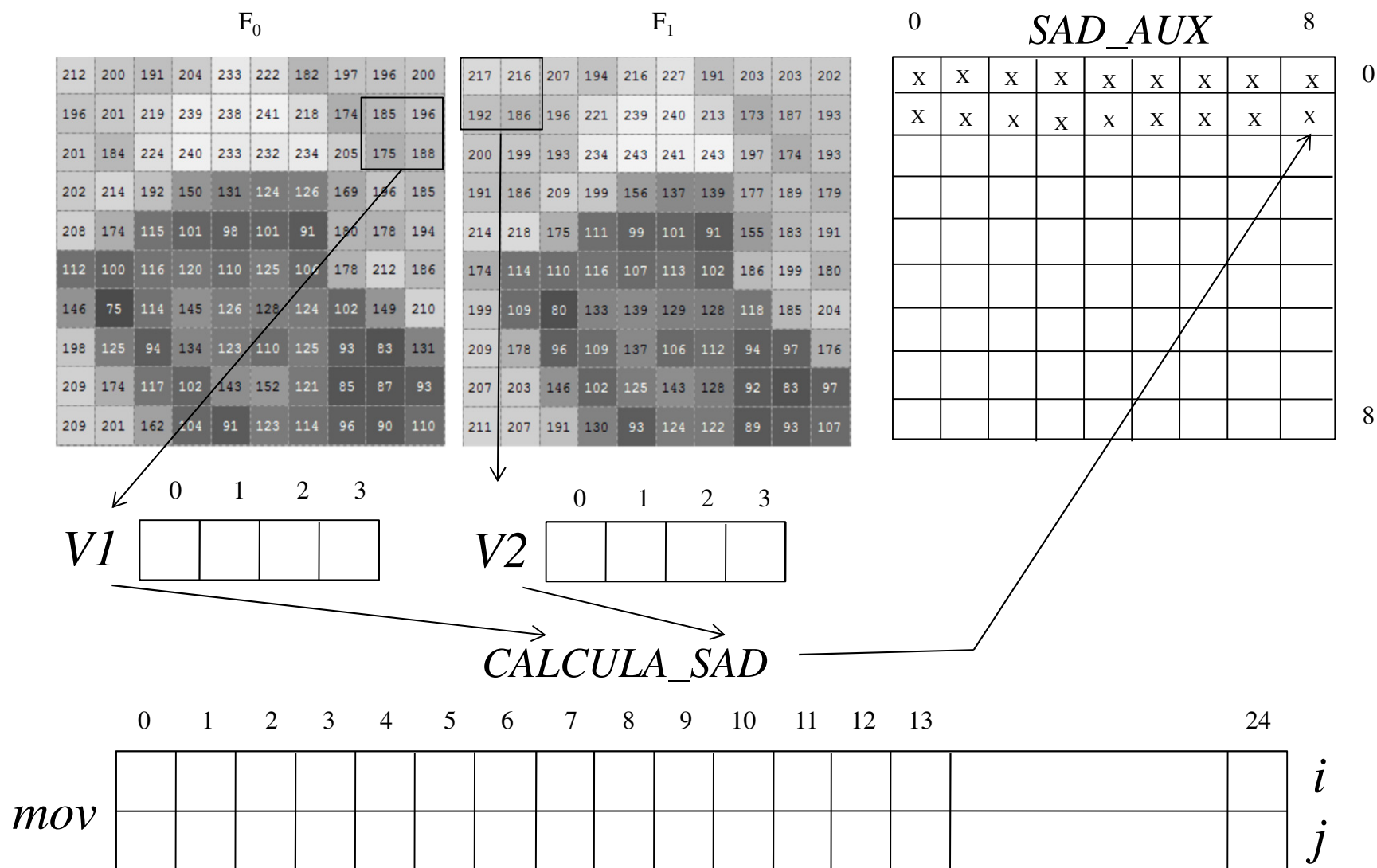






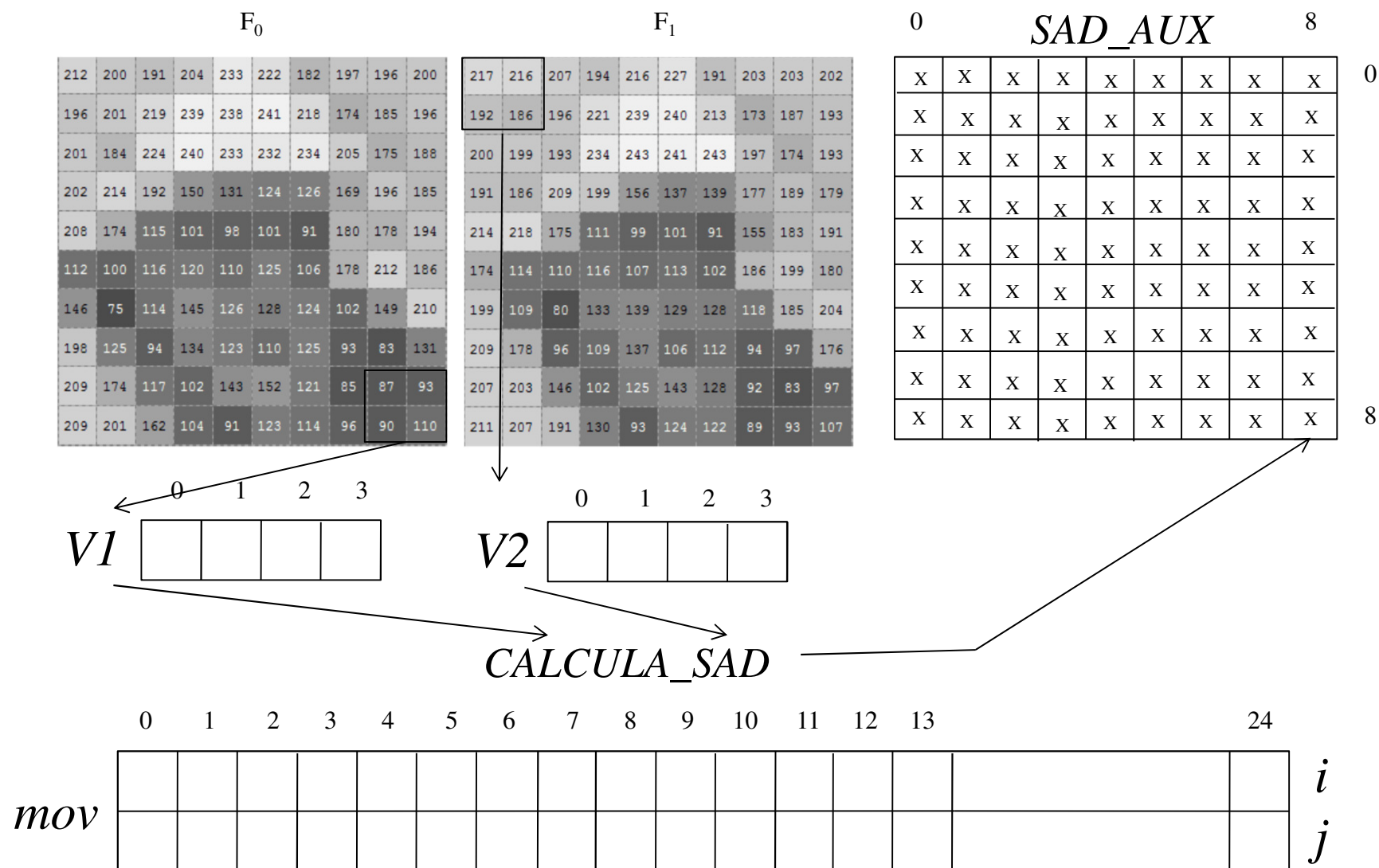


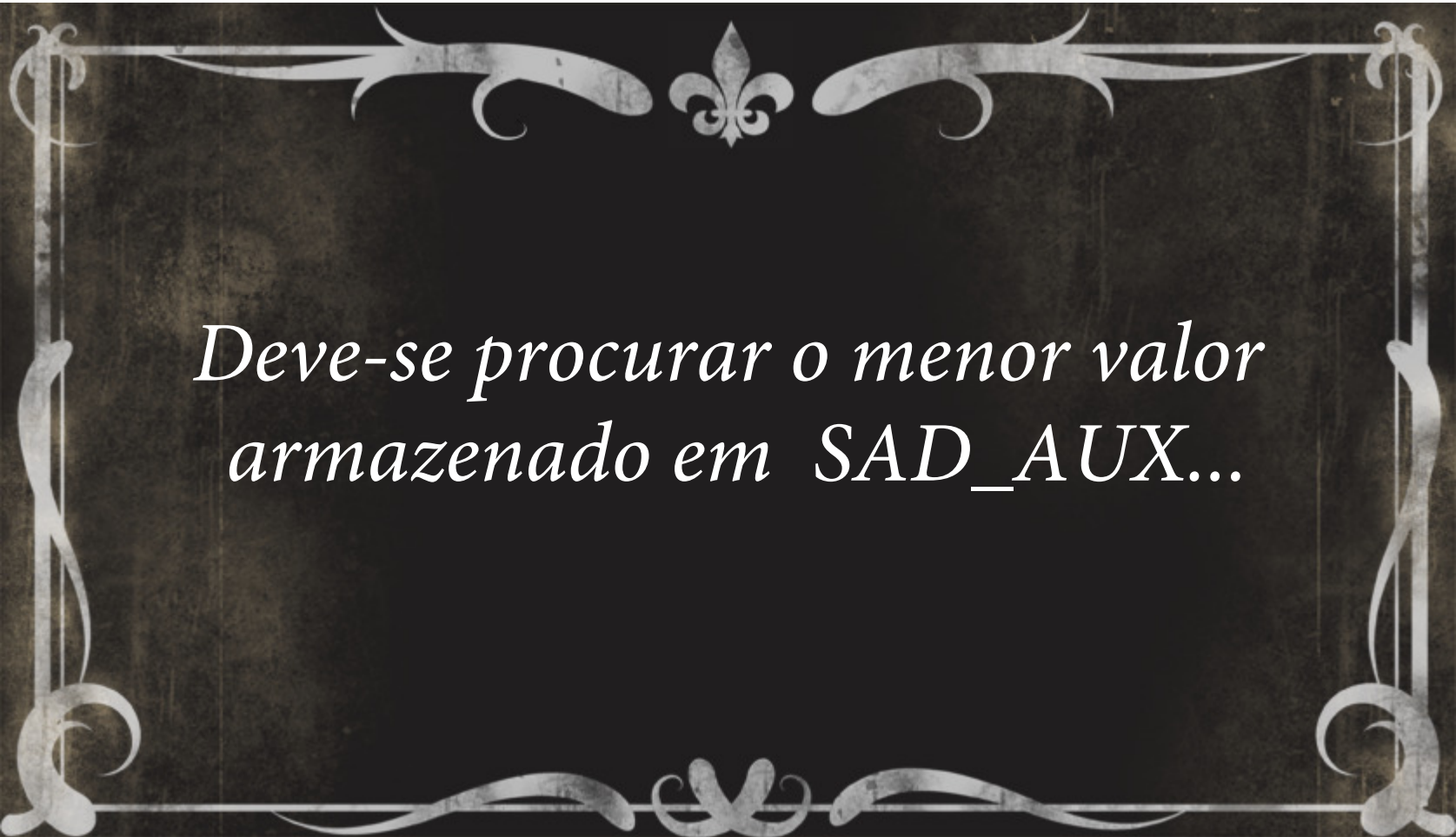
*Depois de preencher a
segunda linha de SAD_AUX...*





*Deve-se preencher SAD_AUX
até o final...*





*Deve-se procurar o menor valor
armazenado em SAD_AUX...*

| F ₀ | | | | | | | | | | F ₁ | | | | | | | | | | 0 SAD_AUX 8 | | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|---|---|---|---|---|---|---|---|---|---|
| 212 | 200 | 191 | 204 | 233 | 222 | 182 | 197 | 196 | 200 | 217 | 216 | 207 | 194 | 216 | 227 | 191 | 203 | 203 | 202 | X | X | X | X | X | X | X | X | X | X | 0 |
| 196 | 201 | 219 | 239 | 238 | 241 | 218 | 174 | 185 | 196 | 192 | 186 | 196 | 221 | 239 | 240 | 213 | 173 | 187 | 193 | X | X | X | X | X | X | X | X | X | X | |
| 201 | 184 | 224 | 240 | 233 | 232 | 234 | 205 | 175 | 188 | 200 | 199 | 193 | 234 | 243 | 241 | 243 | 197 | 174 | 193 | X | X | X | X | X | X | X | X | X | X | |
| 202 | 214 | 192 | 150 | 131 | 124 | 126 | 169 | 196 | 185 | 191 | 186 | 209 | 199 | 156 | 137 | 139 | 177 | 189 | 179 | X | X | X | X | X | X | X | X | X | X | |
| 208 | 174 | 115 | 101 | 98 | 101 | 91 | 180 | 178 | 194 | 214 | 218 | 175 | 111 | 99 | 101 | 91 | 155 | 183 | 191 | X | X | X | X | X | X | X | X | X | X | |
| 112 | 100 | 116 | 120 | 110 | 125 | 106 | 178 | 212 | 186 | 174 | 114 | 110 | 116 | 107 | 113 | 102 | 186 | 199 | 180 | X | X | X | X | X | X | X | X | X | X | |
| 146 | 75 | 114 | 145 | 126 | 128 | 124 | 102 | 149 | 210 | 199 | 109 | 80 | 133 | 139 | 129 | 128 | 118 | 185 | 204 | X | X | X | X | X | X | X | X | X | X | |
| 198 | 125 | 94 | 134 | 123 | 110 | 125 | 93 | 83 | 131 | 209 | 178 | 96 | 109 | 137 | 106 | 112 | 94 | 97 | 176 | X | X | X | X | X | X | X | X | X | X | |
| 209 | 174 | 117 | 102 | 143 | 152 | 121 | 85 | 87 | 93 | 207 | 203 | 146 | 102 | 125 | 143 | 128 | 92 | 83 | 97 | X | X | X | X | X | X | X | X | X | X | |
| 209 | 201 | 162 | 104 | 91 | 123 | 114 | 96 | 90 | 110 | 211 | 207 | 191 | 130 | 93 | 124 | 122 | 89 | 93 | 107 | X | X | X | X | X | X | X | X | X | X | 8 |

$V1$

| 0 | 1 | 2 | 3 |
|---|---|---|---|
| | | | |

$V2$

| 0 | 1 | 2 | 3 |
|---|---|---|---|
| | | | |

$CALCULA_SAD$

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 24 |
|-------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|--|----|
| mov | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

i
 j

F_0

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 212 | 200 | 191 | 204 | 233 | 222 | 182 | 197 | 196 | 200 |
| 196 | 201 | 219 | 239 | 238 | 241 | 218 | 174 | 185 | 196 |
| 201 | 184 | 224 | 240 | 233 | 232 | 234 | 205 | 175 | 188 |
| 202 | 214 | 192 | 150 | 131 | 124 | 126 | 169 | 196 | 185 |
| 208 | 174 | 115 | 101 | 98 | 101 | 91 | 180 | 178 | 194 |
| 112 | 100 | 116 | 120 | 110 | 125 | 106 | 178 | 212 | 186 |
| 146 | 75 | 114 | 145 | 126 | 128 | 124 | 102 | 149 | 210 |
| 198 | 125 | 94 | 134 | 123 | 110 | 125 | 93 | 83 | 131 |
| 209 | 174 | 117 | 102 | 143 | 152 | 121 | 85 | 87 | 93 |
| 209 | 201 | 162 | 104 | 91 | 123 | 114 | 96 | 90 | 110 |

F_1

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 217 | 216 | 207 | 194 | 216 | 227 | 191 | 203 | 203 | 202 |
| 192 | 186 | 196 | 221 | 239 | 240 | 213 | 173 | 187 | 193 |
| 200 | 199 | 193 | 234 | 243 | 241 | 243 | 197 | 174 | 193 |
| 191 | 186 | 209 | 199 | 156 | 137 | 139 | 177 | 189 | 179 |
| 214 | 218 | 175 | 111 | 99 | 101 | 91 | 155 | 183 | 191 |
| 174 | 114 | 110 | 116 | 107 | 113 | 102 | 186 | 199 | 180 |
| 199 | 109 | 80 | 133 | 139 | 129 | 128 | 118 | 185 | 204 |
| 209 | 178 | 96 | 109 | 137 | 106 | 112 | 94 | 97 | 176 |
| 207 | 203 | 146 | 102 | 125 | 143 | 128 | 92 | 83 | 97 |
| 211 | 207 | 191 | 130 | 93 | 124 | 122 | 89 | 93 | 107 |

SAD_AUX

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | X | X | X | X | X | X | X | X | 8 |
| X | X | X | X | X | X | X | X | X | 0 |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | |
| X | X | X | X | X | X | X | X | X | 8 |

0 1 2 3

$V1$

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

0 1 2 3

$V2$

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

Suponha que este
seja o menor valor...

$CALCULA_SAD$

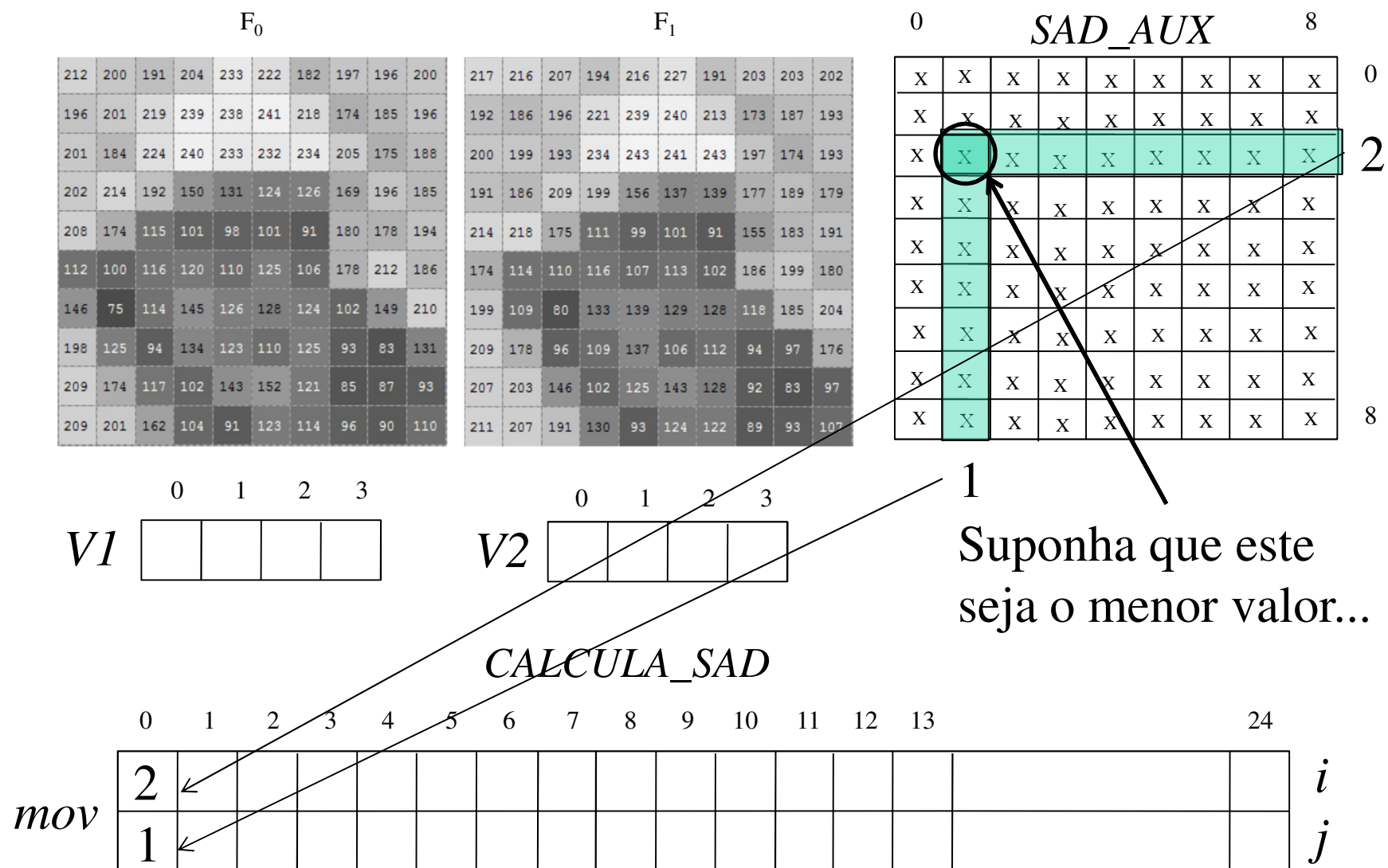
| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|-----|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 24 | |
| | | | | | | | | | | | | | | | i |
| | | | | | | | | | | | | | | | j |

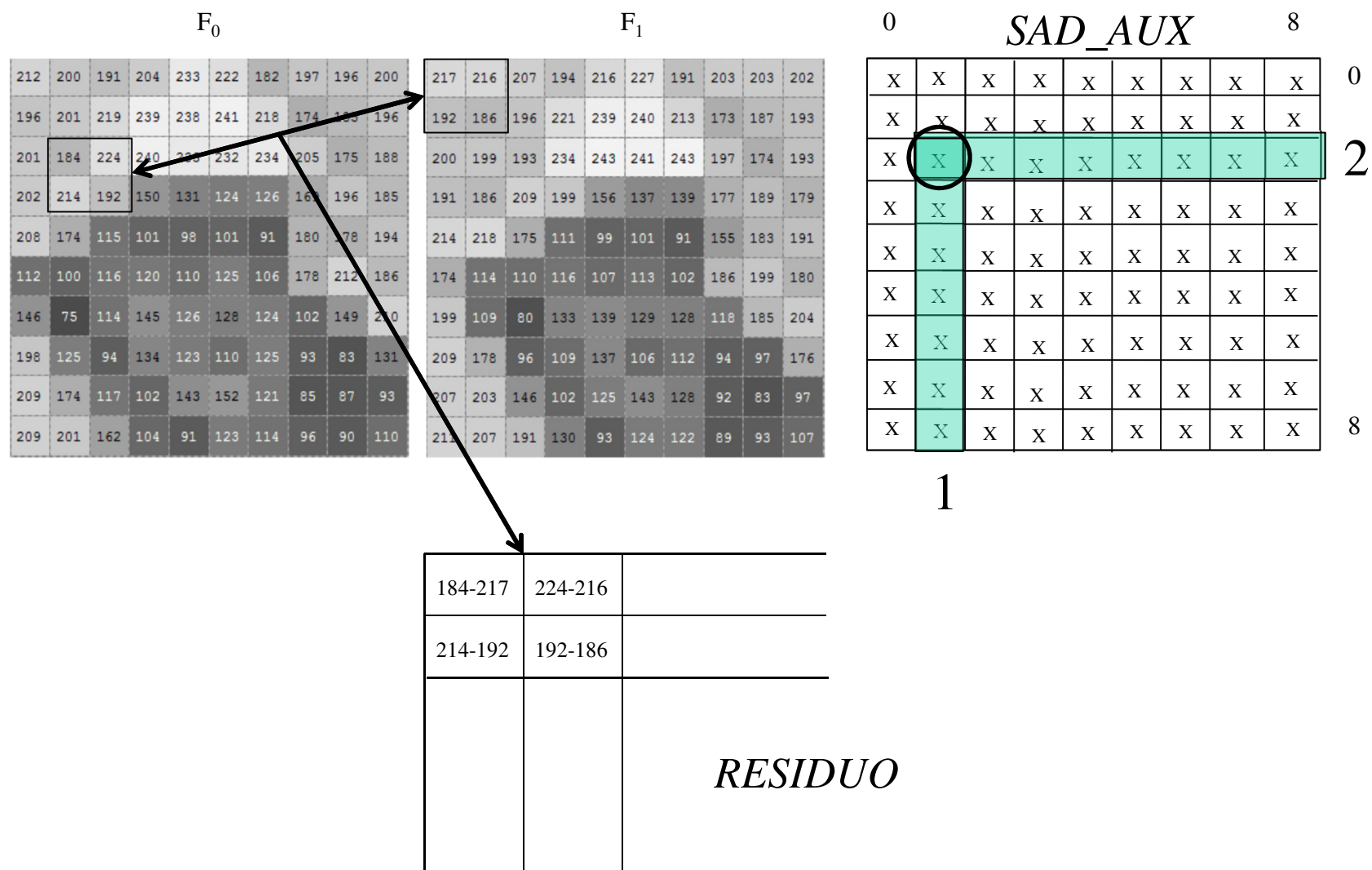
mov

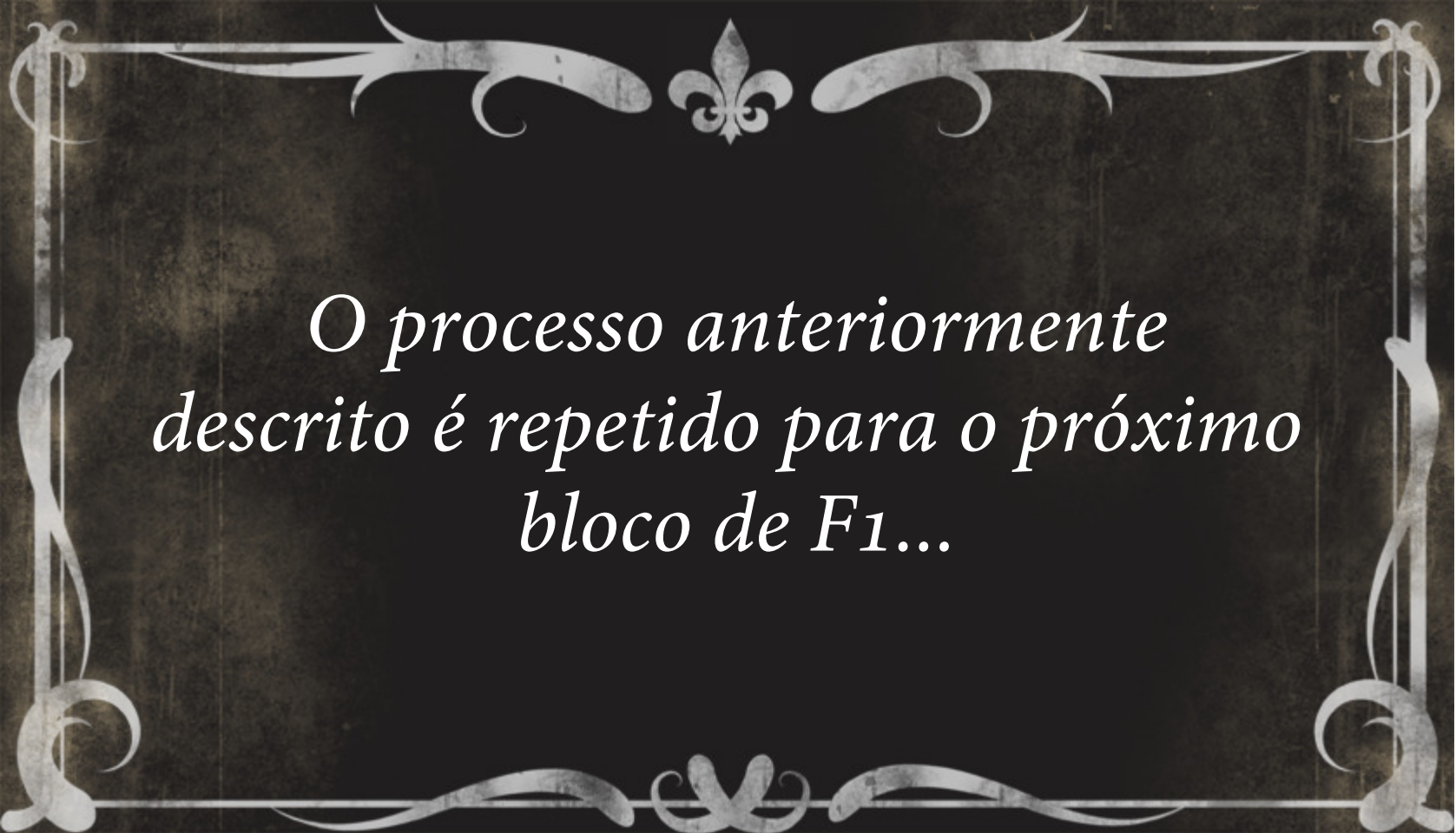
Suponha que este
seja o menor valor...

CALCULA SAD

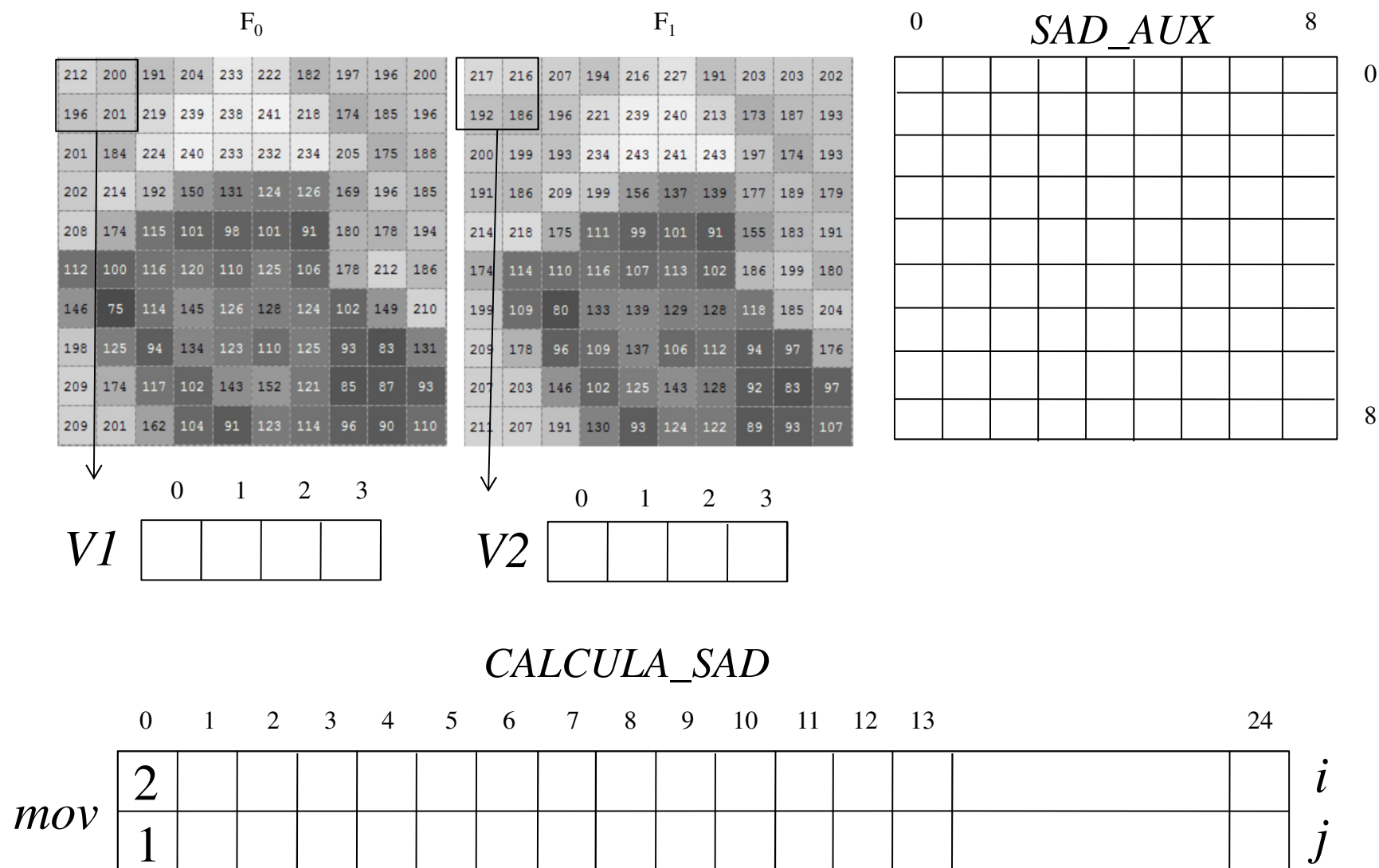
Diagram illustrating a 25-bit register structure. The register is divided into two rows of bits, labeled i (top row) and j (bottom row). The bits are numbered 0 to 24 from left to right. The instruction `mov` is shown to the left of the register.

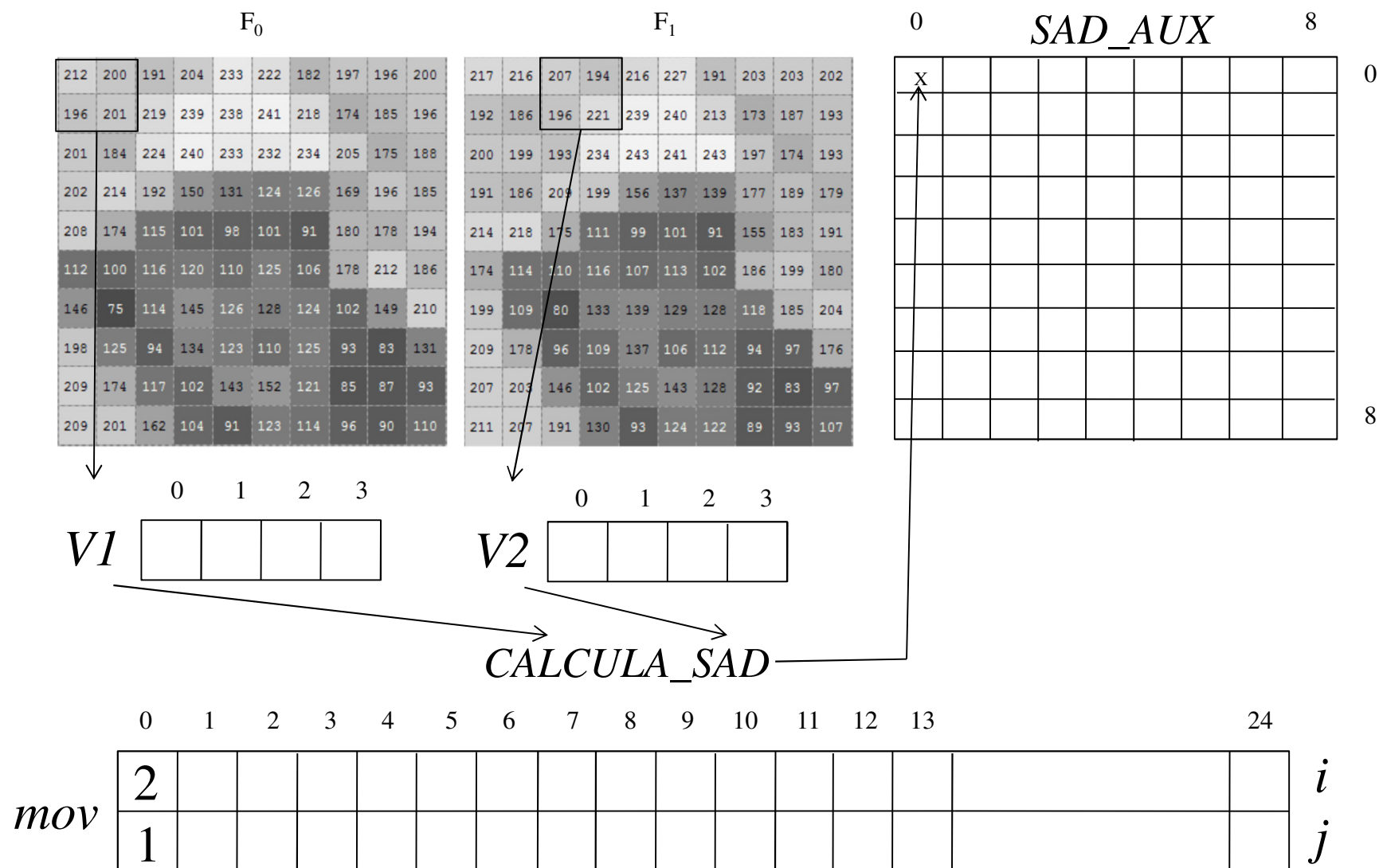






*O processo anteriormente
descrito é repetido para o próximo
bloco de F_1 ...*







*O processo anteriormente descrito
é repetido para todos os
25 blocos de F_1 ...*

